

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101519\
 Data File : VY000316.D
 Acq On : 15 Oct 2019 13:39
 Operator : SY/MD
 Sample : K5111-01 4PPB LOD
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Quant Time: Oct 15 17:39:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 14 08:10:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	303905	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	511951	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	444382	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	210512	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	178699	55.74	ug/l	0.00
Spiked Amount			Recovery	=	111.48%	
35) Dibromofluoromethane	7.73	113	157621	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	
50) Toluene-d8	10.18	98	634640	53.42	ug/l	0.00
Spiked Amount			Recovery	=	106.84%	
62) 4-Bromofluorobenzene	12.48	95	224993	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	12836	1.081	ug/l	100
3) Chloromethane	2.12	50	16446	4.429	ug/l	98
4) Vinyl Chloride	2.25	62	16724	4.462	ug/l	97
5) Bromomethane	2.65	94	13558	4.881	ug/l	100
6) Chloroethane	2.80	64	11564	4.782	ug/l	91
7) Trichlorofluoromethane	3.13	101	22960	4.479	ug/l	93
8) Diethyl Ether	3.54	74	8132	4.490	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.91	101	13930	4.480	ug/l	98
10) Methyl Iodide	4.10	142	14371	4.354	ug/l	95
11) Tert butyl alcohol	4.97	59	9113	27.164	ug/l #	90
12) 1,1-Dichloroethene	3.88	96	13299	4.333	ug/l	92
13) Acrolein	3.74	56	7885	20.047	ug/l	98
14) Allyl chloride	4.49	41	21773	4.281	ug/l	98
15) Acrylonitrile	5.18	53	21725	21.431	ug/l	97
16) Acetone	3.96	43	21877	21.073	ug/l	94
17) Carbon Disulfide	4.20	76	42360	4.383	ug/l #	93
18) Methyl Acetate	4.49	43	13556	5.255	ug/l	93
19) Methyl tert-butyl Ether	5.23	73	37496	4.388	ug/l	95
20) Methylene Chloride	4.72	84	26847	2.512	ug/l #	96
21) trans-1,2-Dichloroethene	5.24	96	15704	4.459	ug/l	88
22) Diisopropyl ether	6.13	45	48756	4.532	ug/l #	94
23) Vinyl Acetate	6.08	43	141955	20.226	ug/l	96
24) 1,1-Dichloroethane	6.02	63	26067	4.439	ug/l	96
25) 2-Butanone	7.00	43	30956	21.168	ug/l #	89
26) 2,2-Dichloropropane	7.00	77	25268	4.670	ug/l	94
27) cis-1,2-Dichloroethene	7.00	96	17504	4.594	ug/l	97
28) Bromochloromethane	7.35	49	13046	5.175	ug/l #	97
29) Tetrahydrofuran	7.36	42	18440	20.806	ug/l	99
30) Chloroform	7.52	83	27851	4.710	ug/l	95
31) Cyclohexane	7.80	56	32458	5.292	ug/l #	82
32) 1,1,1-Trichloroethane	7.71	97	22686	4.315	ug/l	96
36) 1,1-Dichloropropene	7.93	75	19622	3.915	ug/l	96
37) Ethyl Acetate	7.09	43	13929	4.693	ug/l #	95
38) Carbon Tetrachloride	7.91	117	19949	4.111	ug/l	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101519\
 Data File : VY000316.D
 Acq On : 15 Oct 2019 13:39
 Operator : SY/MD
 Sample : K5111-01 4PPB LOD
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Quant Time: Oct 15 17:39:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 14 08:10:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.19	83	28820	4.393	ug/l	88
40) Benzene	8.18	78	62474	4.313	ug/l	93
41) Methacrylonitrile	7.32	41	7218	5.109	ug/l #	32
42) 1,2-Dichloroethane	8.24	62	18558	4.485	ug/l	96
43) Isopropyl Acetate	8.28	43	23885	4.233	ug/l	97
44) Trichloroethene	8.94	130	17299	4.256	ug/l	97
45) 1,2-Dichloropropane	9.22	63	15898	4.472	ug/l	96
46) Dibromomethane	9.31	93	8611	4.333	ug/l	99
47) Bromodichloromethane	9.50	83	19732	4.213	ug/l	90
48) Methyl methacrylate	9.30	41	9504	3.843	ug/l	95
49) 1,4-Dioxane	9.30	88	2801	94.010	ug/l #	89
51) 4-Methyl-2-Pentanone	10.08	43	63524	21.825	ug/l	96
52) Toluene	10.25	92	39998	4.349	ug/l	96
53) t-1,3-Dichloropropene	10.47	75	21011	4.186	ug/l	97
54) cis-1,3-Dichloropropene	9.93	75	23758	4.168	ug/l	96
55) 1,1,2-Trichloroethane	10.64	97	11657	4.035	ug/l	94
56) Ethyl methacrylate	10.51	69	16308	3.960	ug/l	97
57) 1,3-Dichloropropane	10.79	76	22065	4.447	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.79	63	43197	26.298	ug/l	99
59) 2-Hexanone	10.83	43	43706	21.393	ug/l	92
60) Dibromochloromethane	10.99	129	13182	4.116	ug/l	99
61) 1,2-Dibromoethane	11.09	107	11396	4.108	ug/l	99
64) Tetrachloroethene	10.72	164	19365	4.577	ug/l	90
65) Chlorobenzene	11.52	112	40827	4.353	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.59	131	13985	4.245	ug/l	95
67) Ethyl Benzene	11.60	91	73960	4.254	ug/l	97
68) m/p-Xylenes	11.70	106	55054	8.284	ug/l	94
69) o-Xylene	12.03	106	26494	4.179	ug/l	98
70) Styrene	12.05	104	42821	4.005	ug/l	97
71) Bromoform	12.21	173	7812	4.125	ug/l #	94
73) Isopropylbenzene	12.33	105	70183	4.276	ug/l	100
74) N-amyl acetate	12.14	43	18198	4.516	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.58	83	13273	4.307	ug/l	93
76) 1,2,3-Trichloropropane	12.64	75	19389	7.490	ug/l #	100
77) Bromobenzene	12.61	156	16615	4.549	ug/l	93
78) n-propylbenzene	12.67	91	84301	4.278	ug/l	100
79) 2-Chlorotoluene	12.75	91	47861	4.397	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	59002	4.287	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	4927	4.164	ug/l	96
82) 4-Chlorotoluene	12.85	91	50104	4.355	ug/l	96
83) tert-Butylbenzene	13.07	119	50770	4.356	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	57584	4.239	ug/l	100
85) sec-Butylbenzene	13.25	105	71173	4.221	ug/l	98
86) p-Isopropyltoluene	13.37	119	63293	4.306	ug/l	99
87) 1,3-Dichlorobenzene	13.36	146	31826	4.422	ug/l	99
88) 1,4-Dichlorobenzene	13.44	146	31219	4.340	ug/l	95
89) n-Butylbenzene	13.69	91	62039	4.271	ug/l	99
90) Hexachloroethane	13.96	117	11402	4.189	ug/l	98
91) 1,2-Dichlorobenzene	13.74	146	29345	4.506	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.35	75	2368	4.051	ug/l	96

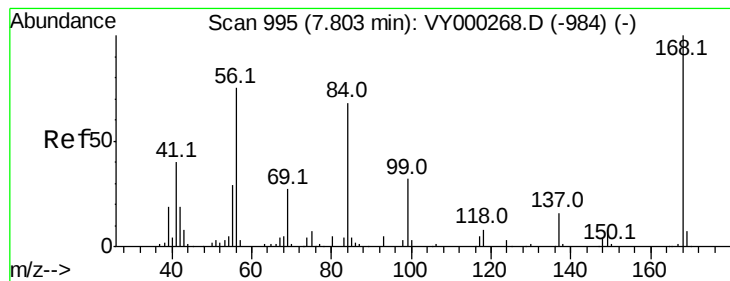
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY101519\
Data File : VY000316.D
Acq On : 15 Oct 2019 13:39
Operator : SY/MD
Sample : K5111-01 4PPB LOD
Misc : 5.00G/5ML/MSVOA Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Quant Time: Oct 15 17:39:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
Quant Title : SW846 8260
QLast Update : Mon Oct 14 08:10:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	20259	4.468	ug/l	97
94) Hexachlorobutadiene	15.11	225	10546	4.298	ug/l	94
95) Naphthalene	15.23	128	49194	4.861	ug/l	100
96) 1,2,3-Trichlorobenzene	15.42	180	18905	4.626	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

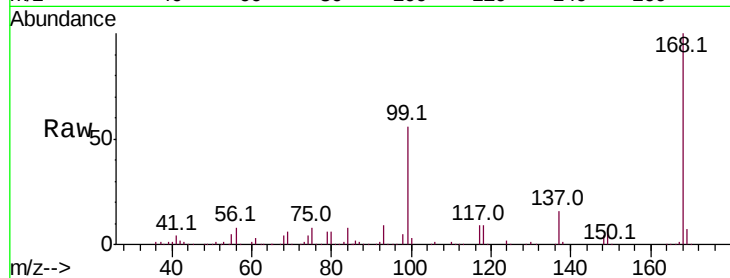
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:168 Resp: 303905

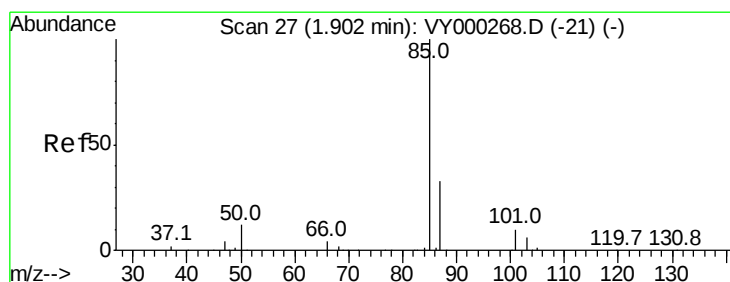
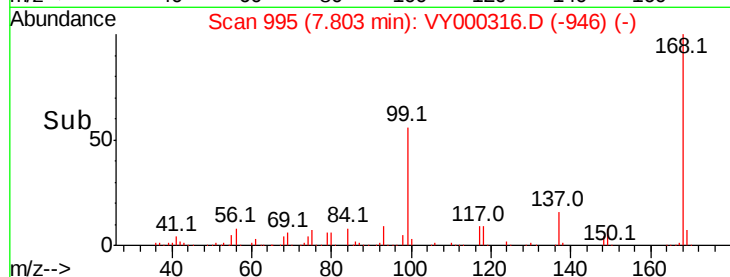
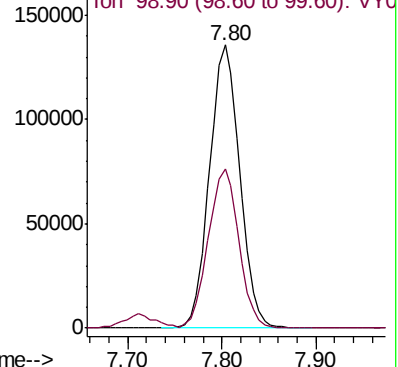
Ion Ratio Lower Upper

168 100

99 56.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000316.D (-946) (-)



#2

Dichlorodifluoromethane

Concen: 1.081 ug/l

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000316.D

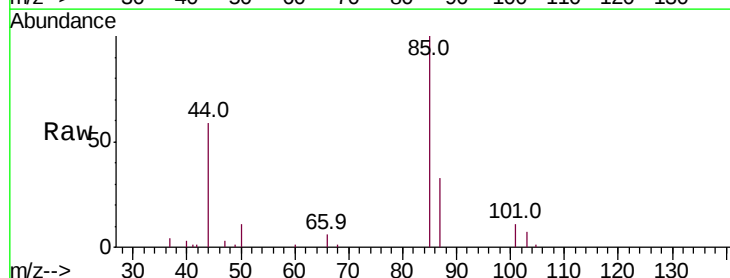
Acq: 15 Oct 2019 13:39

Tgt Ion: 85 Resp: 12836

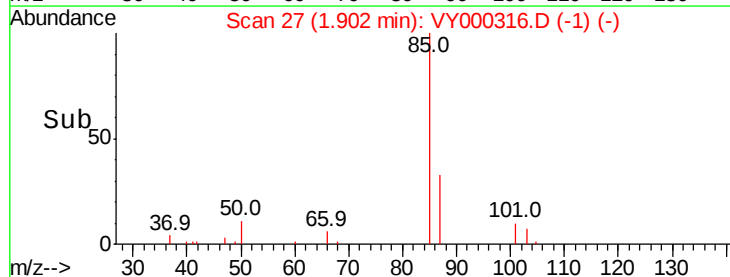
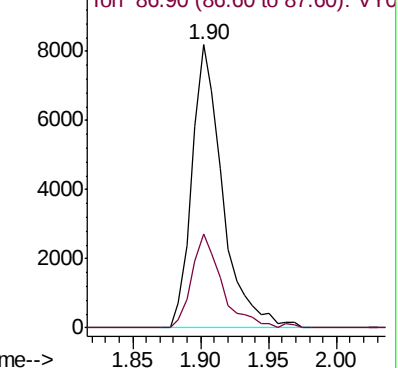
Ion Ratio Lower Upper

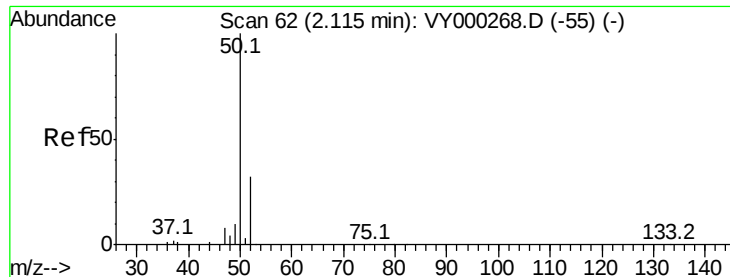
85 100

87 33.3 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VY000316.D (-1) (-)





#3

Chloromethane

Concen: 4.429 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

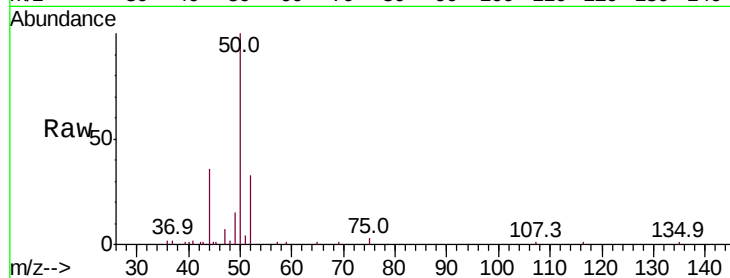
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 50 Resp: 16446

Ion Ratio Lower Upper

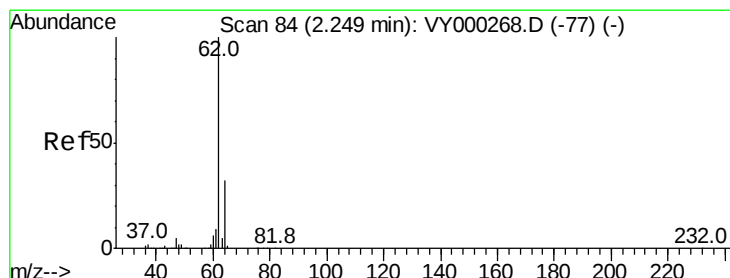
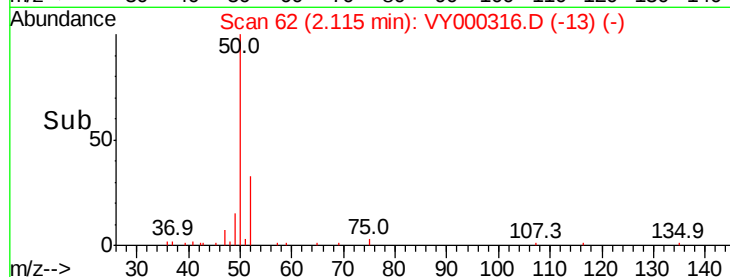
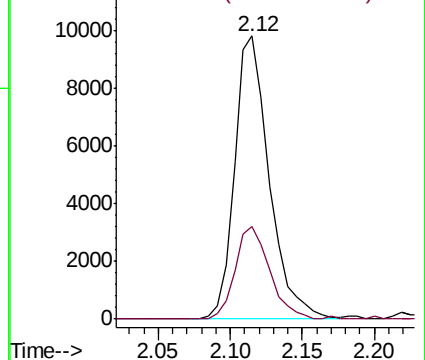
50 100

52 32.6 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#4

Vinyl Chloride

Concen: 4.462 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.00 min

Lab File: VY000316.D

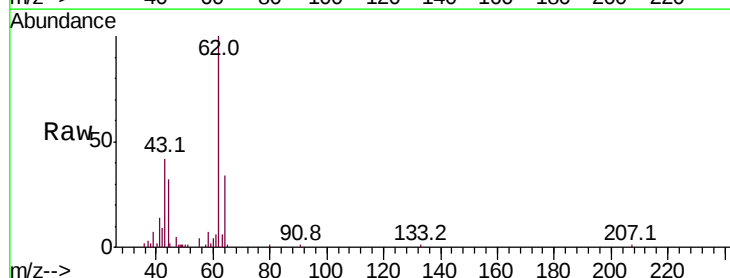
Acq: 15 Oct 2019 13:39

Tgt Ion: 62 Resp: 16724

Ion Ratio Lower Upper

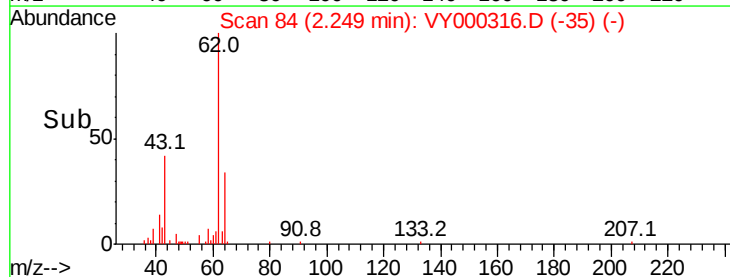
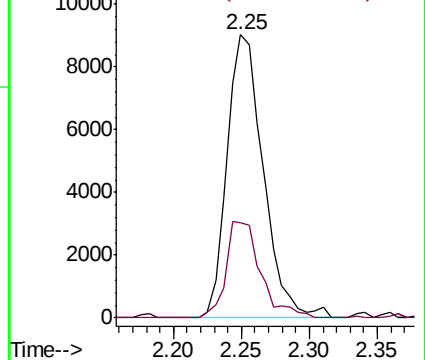
62 100

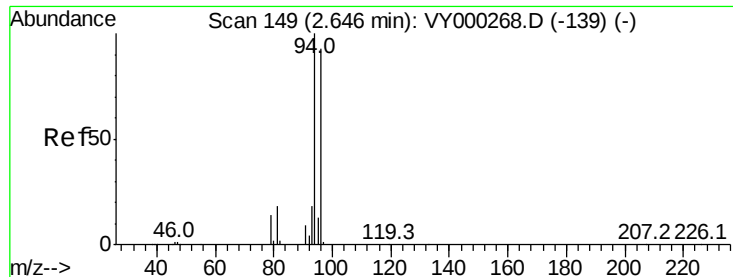
64 33.8 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0





#5

Bromomethane

Concen: 4.881 ug/l

RT: 2.65 min Scan# 150

Delta R.T. 0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

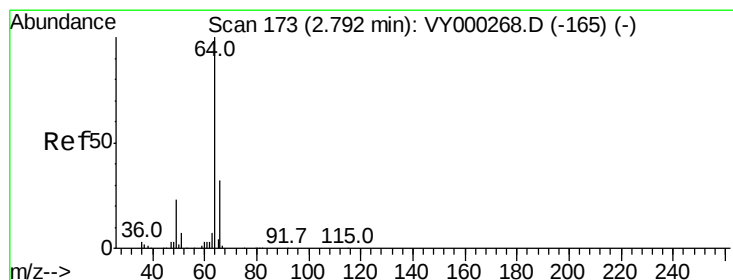
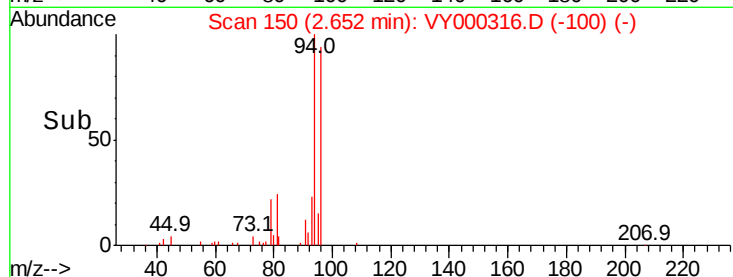
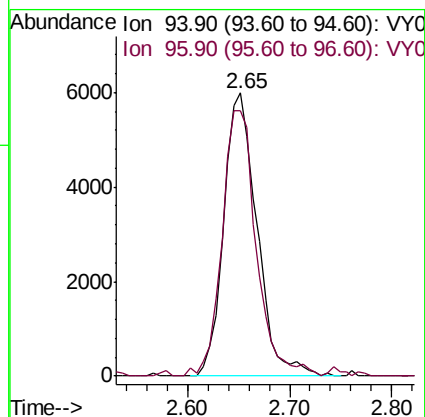
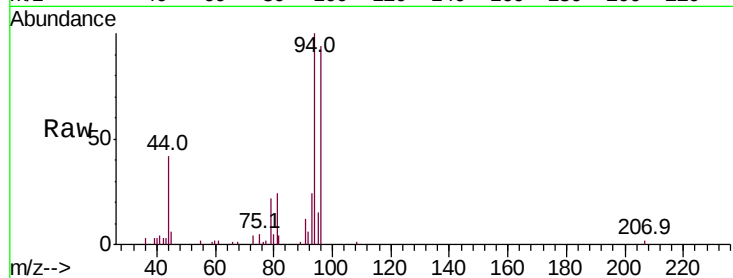
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 94 Resp: 13558

Ion Ratio Lower Upper

94 100

96 92.3 74.2 111.2



#6

Chloroethane

Concen: 4.782 ug/l

RT: 2.80 min Scan# 174

Delta R.T. 0.01 min

Lab File: VY000316.D

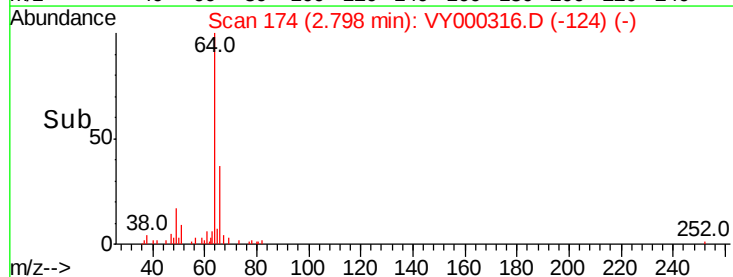
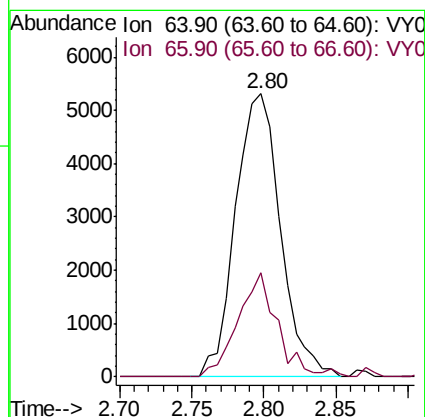
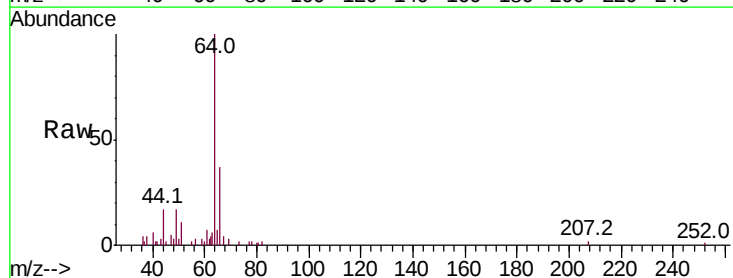
Acq: 15 Oct 2019 13:39

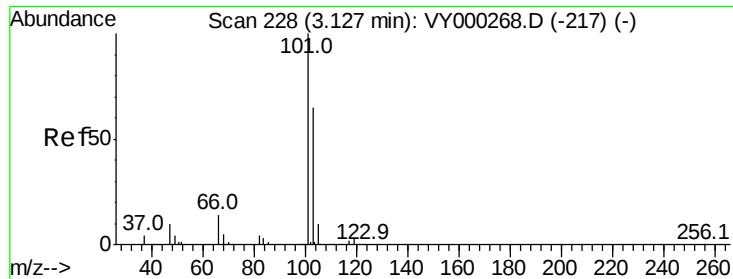
Tgt Ion: 64 Resp: 11564

Ion Ratio Lower Upper

64 100

66 36.9 25.6 38.4





#7

Trichlorofluoromethane

Concen: 4.479 ug/l

RT: 3.13 min Scan# 228

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

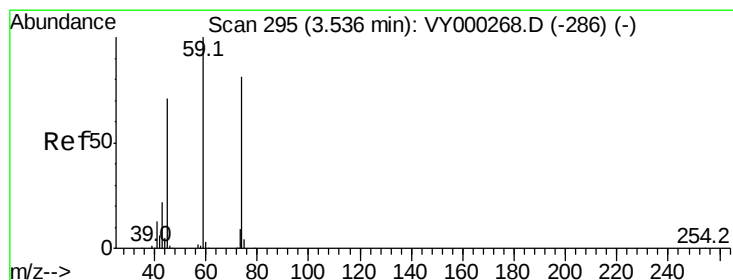
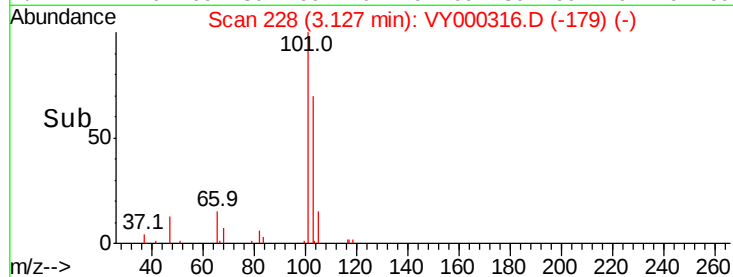
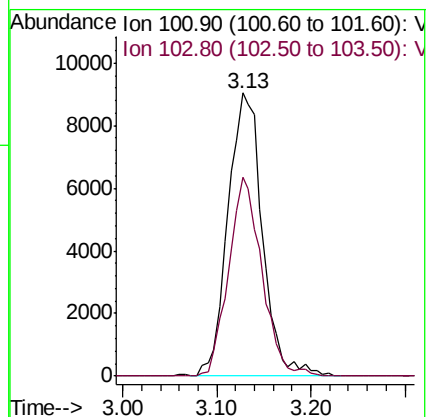
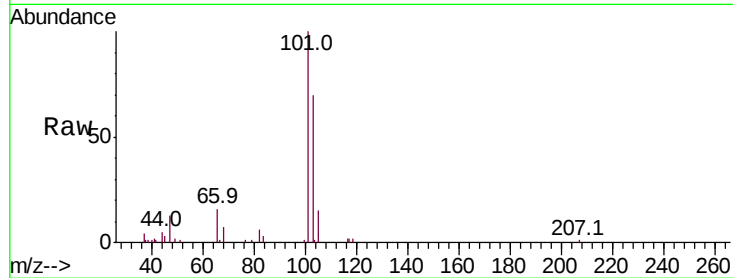
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:101 Resp: 22960

Ion Ratio Lower Upper

101 100

103 70.5 52.2 78.4



#8

Diethyl Ether

Concen: 4.490 ug/l

RT: 3.54 min Scan# 295

Delta R.T. -0.00 min

Lab File: VY000316.D

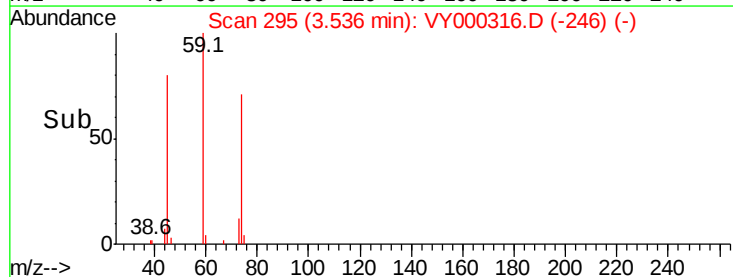
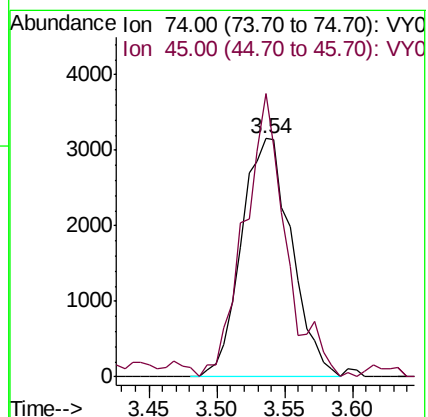
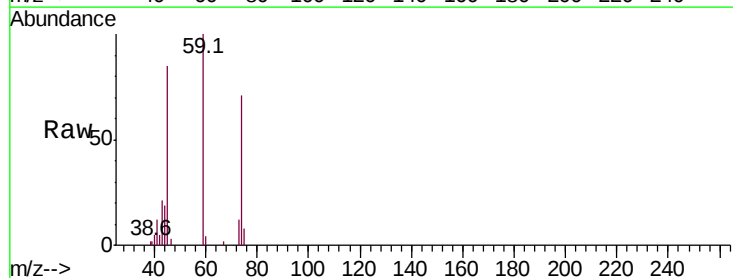
Acq: 15 Oct 2019 13:39

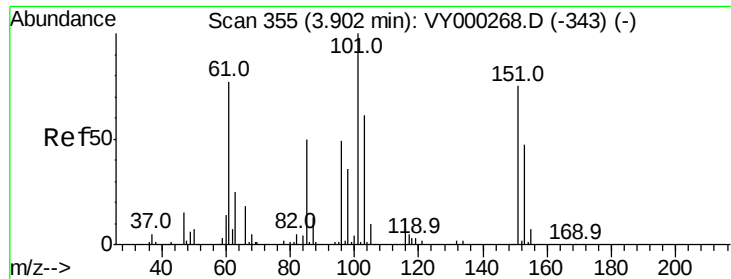
Tgt Ion: 74 Resp: 8132

Ion Ratio Lower Upper

74 100

45 98.5 47.1 141.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.480 ug/l

RT: 3.91 min Scan# 356

Delta R.T. 0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

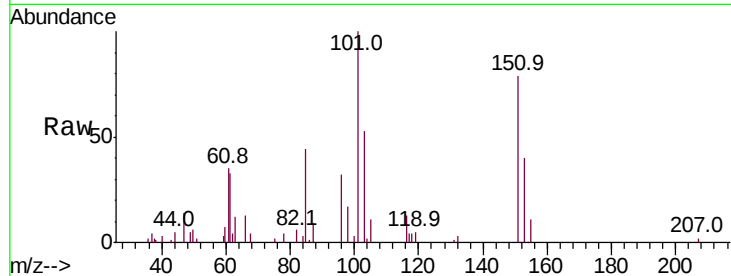
Tot Ion:101 Resp: 13930

Ion Ratio Lower Upper

101 100

85 49.2 36.6 55.0

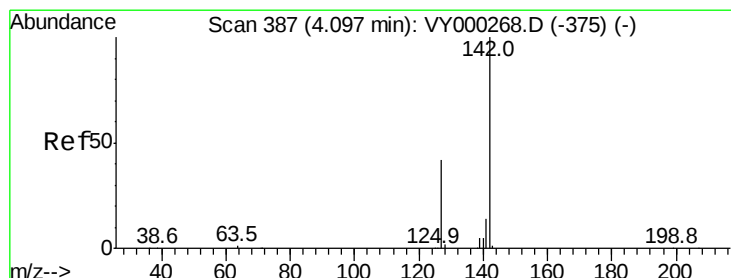
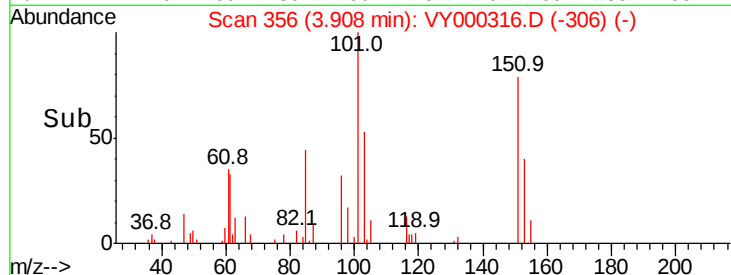
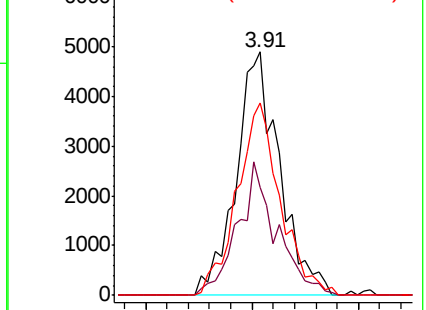
151 78.8 63.1 94.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VY0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.354 ug/l

RT: 4.10 min Scan# 387

Delta R.T. 0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

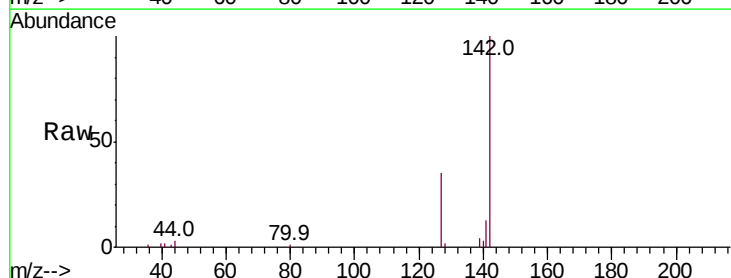
Tgt Ion:142 Resp: 14371

Ion Ratio Lower Upper

142 100

127 45.8 33.9 50.9

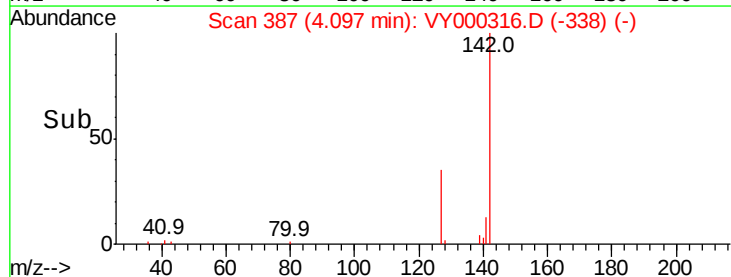
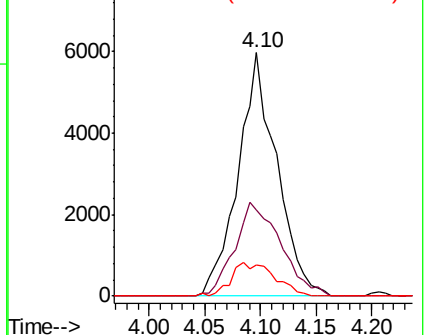
141 15.5 11.2 16.8

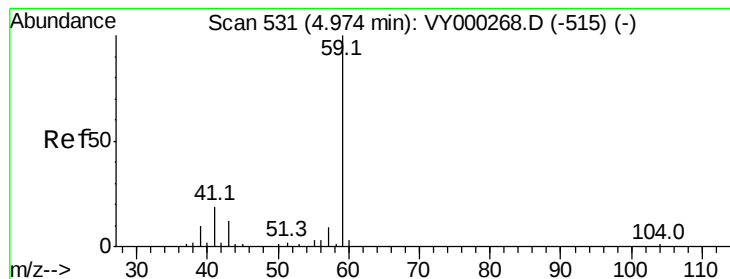


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



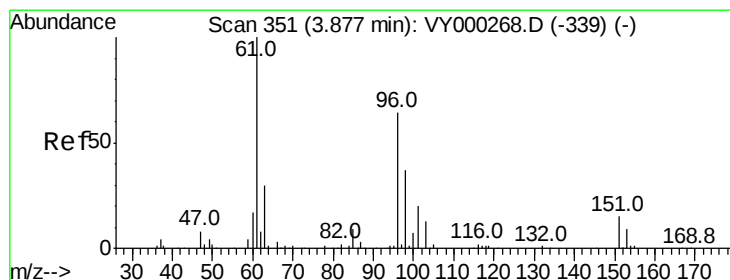
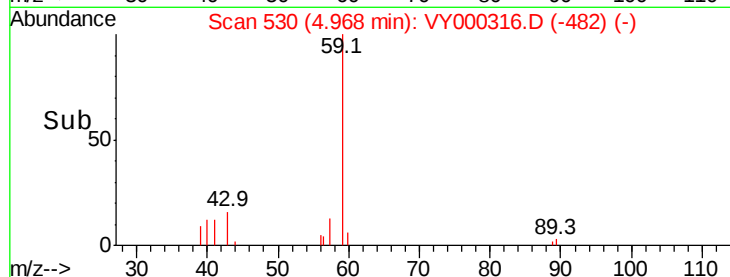
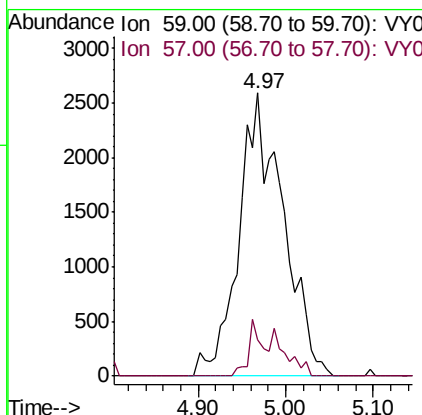
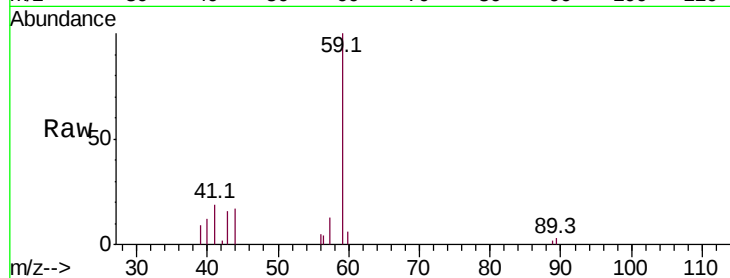


#11

Tert butyl alcohol
 Concen: 27.164 ug/l
 RT: 4.97 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

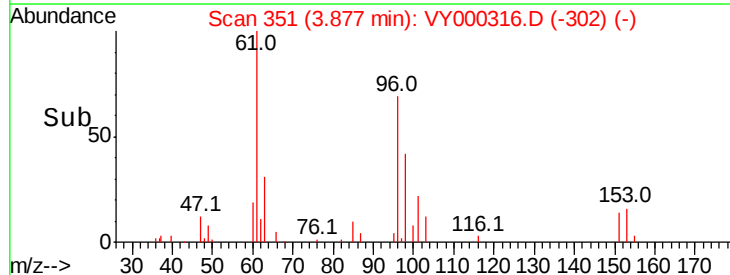
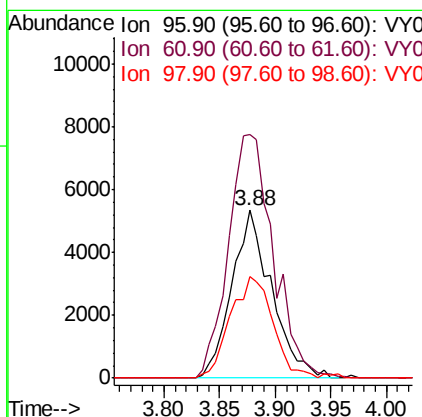
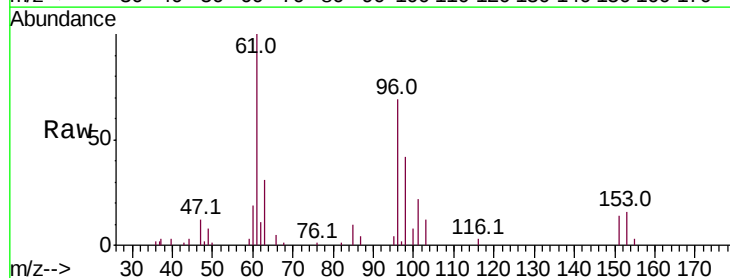
Tot Ion: 59 Resp: 9113
 Ion Ratio Lower Upper
 59 100
 57 6.4 8.2 12.2#

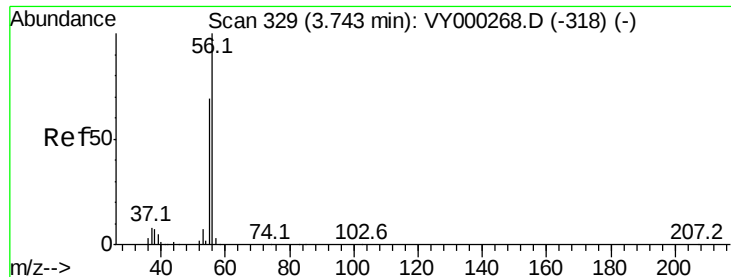


#12

1,1-Dichloroethene
 Concen: 4.333 ug/l
 RT: 3.88 min Scan# 351
 Delta R.T. -0.00 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Tgt Ion: 96 Resp: 13299
 Ion Ratio Lower Upper
 96 100
 61 145.4 125.8 188.6
 98 60.6 46.2 69.2





#13

Acrolein

Concen: 20.047 ug/l

RT: 3.74 min Scan# 328

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

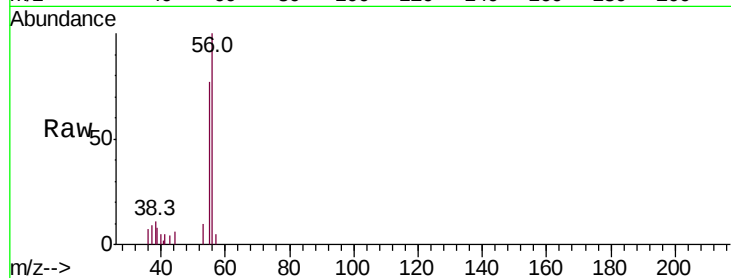
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 56 Resp: 7885

Ion Ratio Lower Upper

56 100

55 70.9 55.7 83.5



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

3000

2500

2000

1500

1000

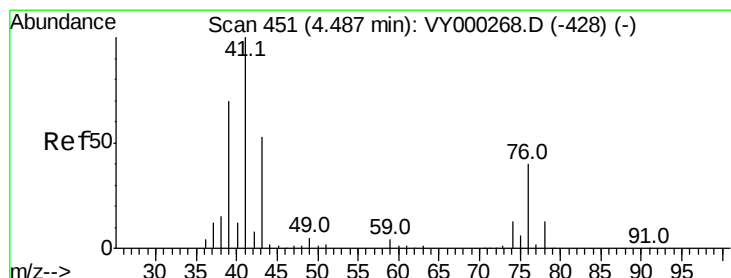
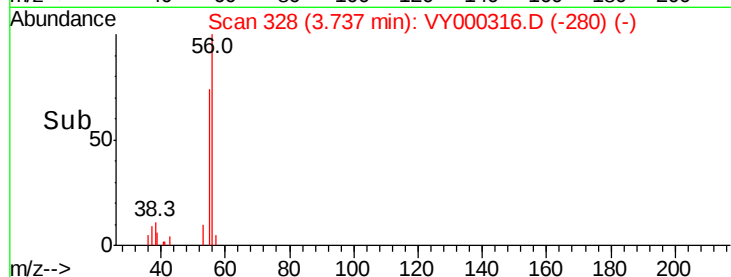
500

0

Time-->

3.65 3.70 3.75 3.80 3.85

3.74



#14

Allyl chloride

Concen: 4.281 ug/l

RT: 4.49 min Scan# 451

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

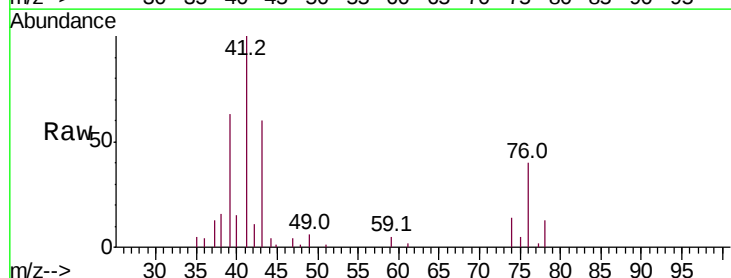
Tgt Ion: 41 Resp: 21773

Ion Ratio Lower Upper

41 100

39 69.3 54.0 81.0

76 37.9 30.7 46.1



Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0

10000

8000

6000

4000

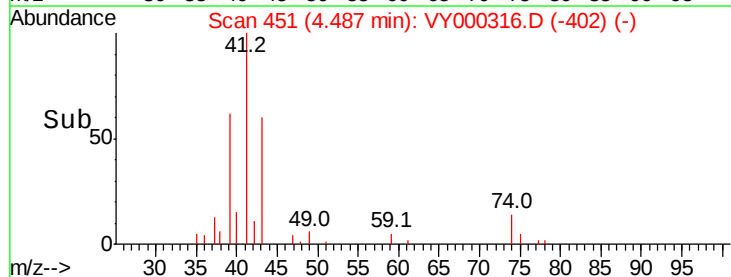
2000

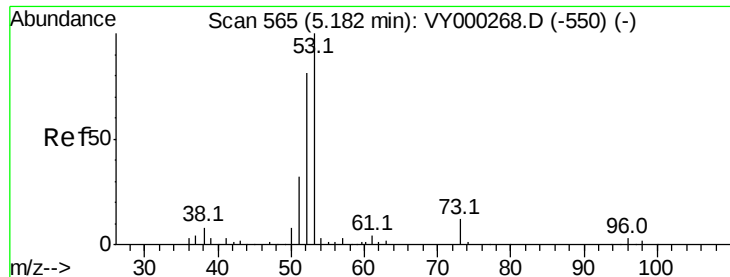
0

Time-->

4.40 4.50 4.60

4.49





#15

Acrylonitrile

Concen: 21.431 ug/l

RT: 5.18 min Scan# 565

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

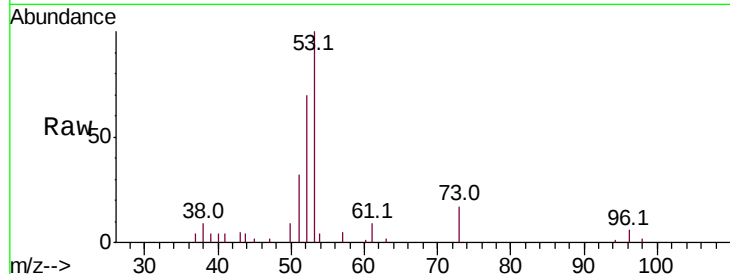
Tot Ion: 53 Resp: 21725

Ion Ratio Lower Upper

53 100

52 80.9 62.9 94.3

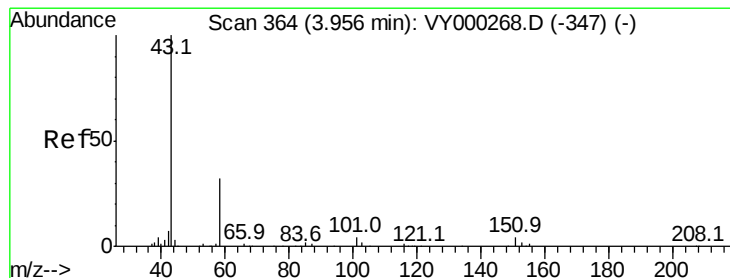
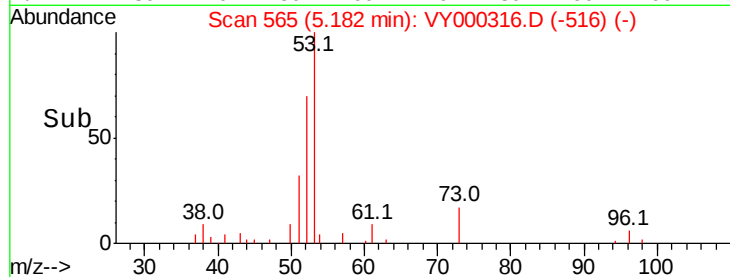
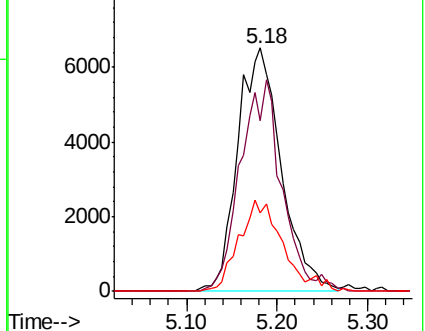
51 35.9 26.9 40.3



Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0



#16

Acetone

Concen: 21.073 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY000316.D

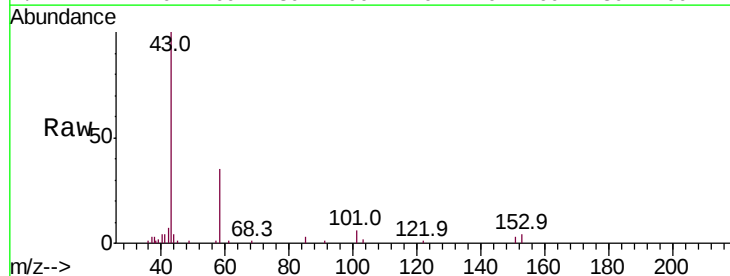
Acq: 15 Oct 2019 13:39

Tgt Ion: 43 Resp: 21877

Ion Ratio Lower Upper

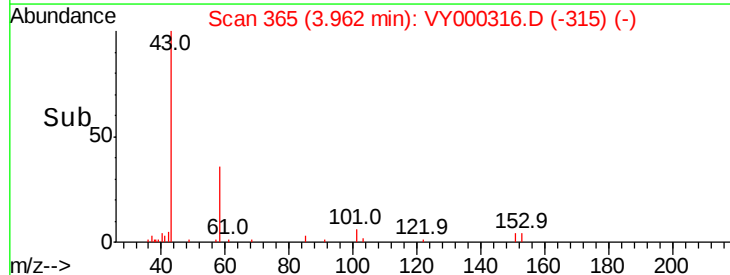
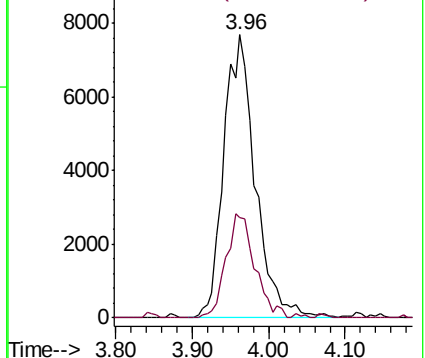
43 100

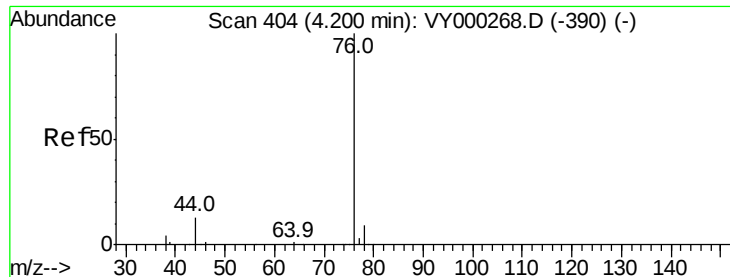
58 35.3 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

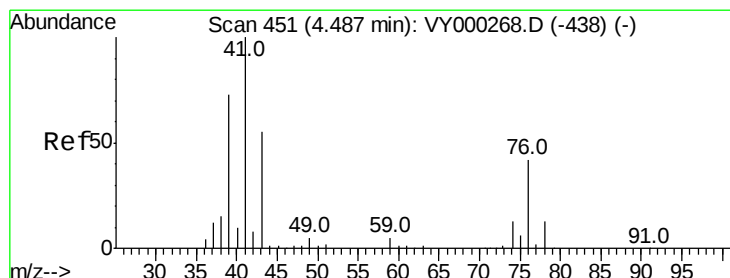
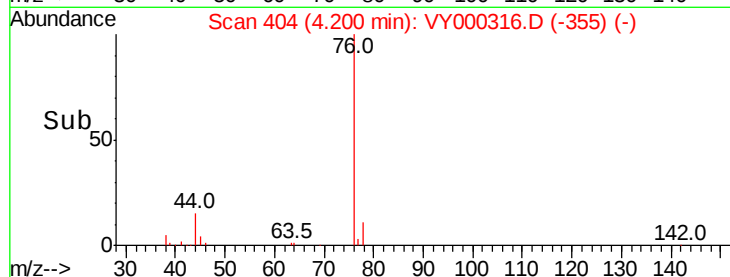
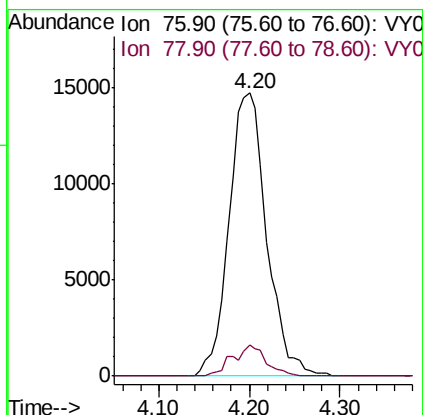
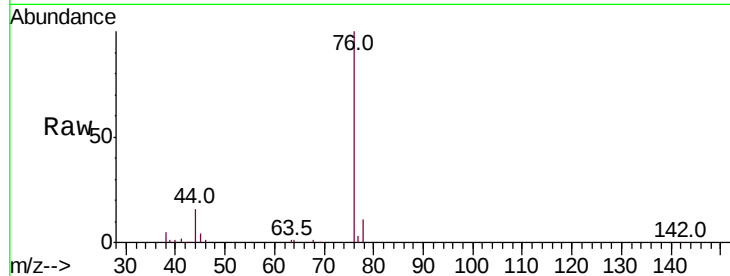




#17
Carbon Disulfide
Concen: 4.383 ug/l
RT: 4.20 min Scan# 404
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

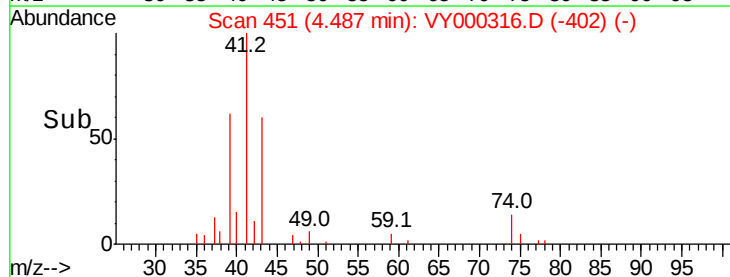
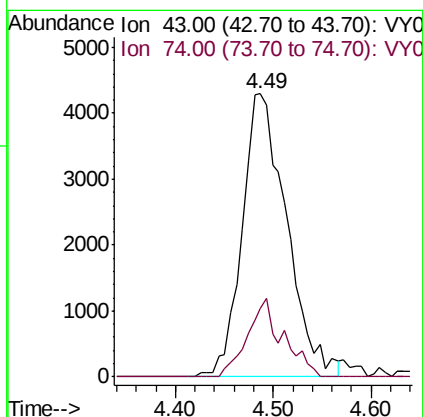
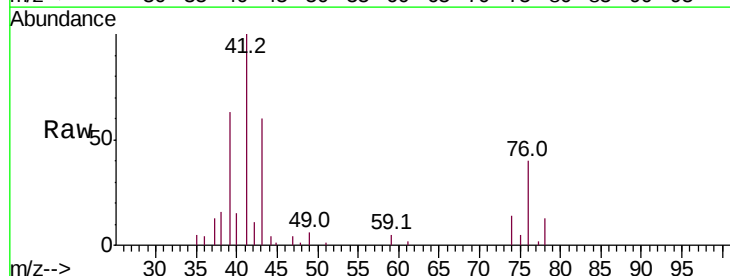
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

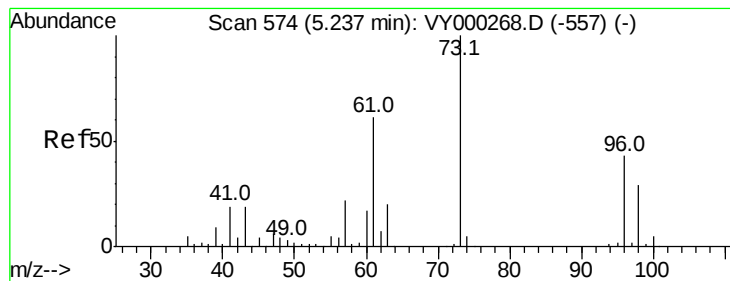
Tot Ion: 76 Resp: 42360
Ion Ratio Lower Upper
76 100
78 11.2 7.0 10.4#



#18
Methyl Acetate
Concen: 5.255 ug/l
RT: 4.49 min Scan# 451
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 43 Resp: 13556
Ion Ratio Lower Upper
43 100
74 22.0 20.4 30.6



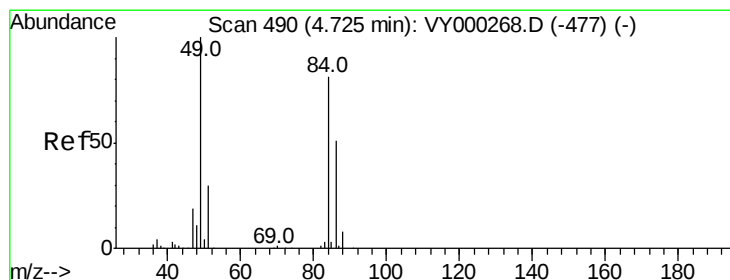
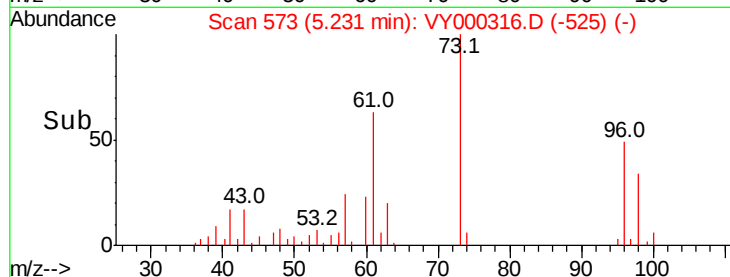
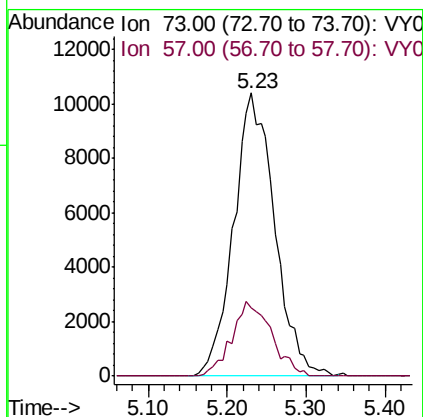
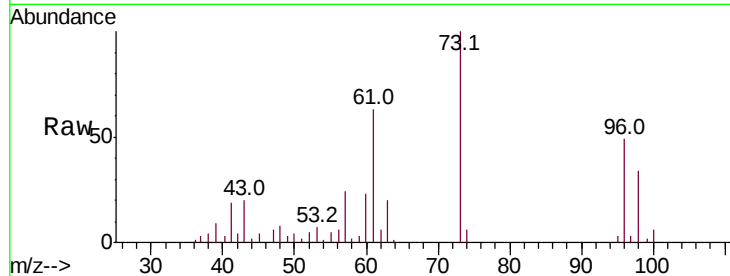


#19

Methvl tert-butvl Ether
 Concen: 4.388 ug/l
 RT: 5.23 min Scan# 573
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

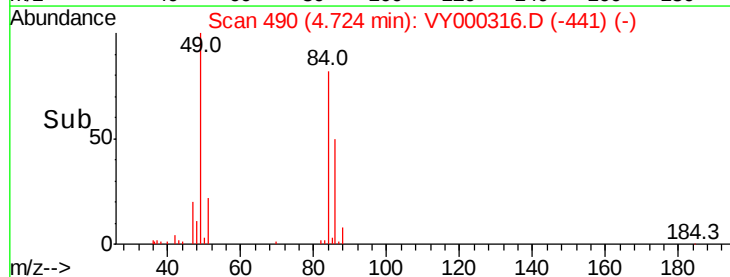
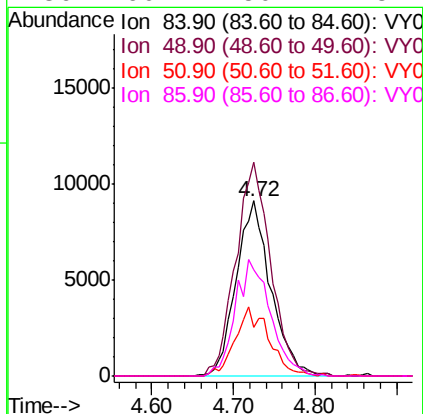
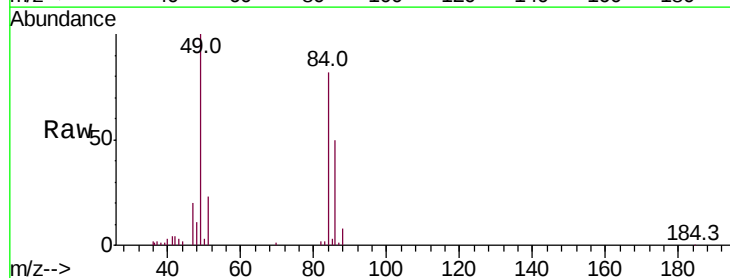
Tot Ion: 73 Resp: 37496
 Ion Ratio Lower Upper
 73 100
 57 24.2 17.4 26.0

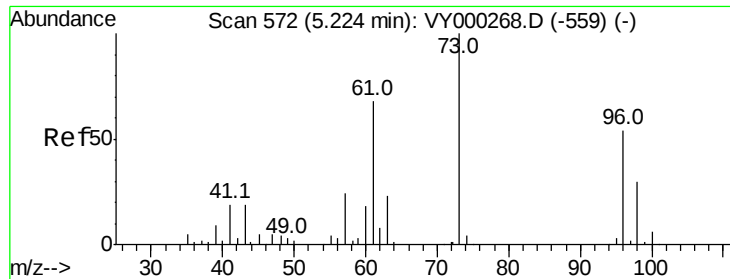


#20

Methylene Chloride
 Concen: 2.512 ug/l
 RT: 4.72 min Scan# 490
 Delta R.T. 0.00 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Tgt Ion: 84 Resp: 26847
 Ion Ratio Lower Upper
 84 100
 49 121.9 99.0 148.4
 51 28.1 29.3 43.9#
 86 60.7 50.2 75.4

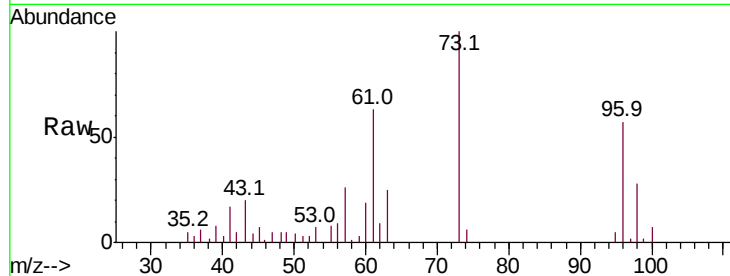




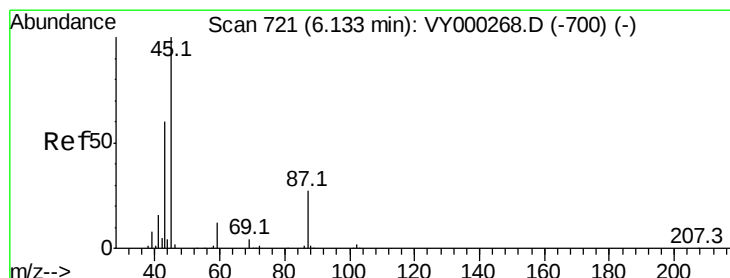
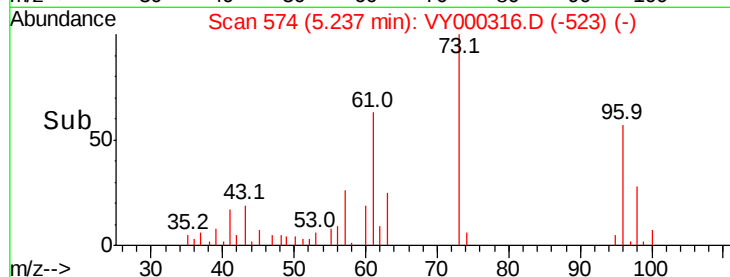
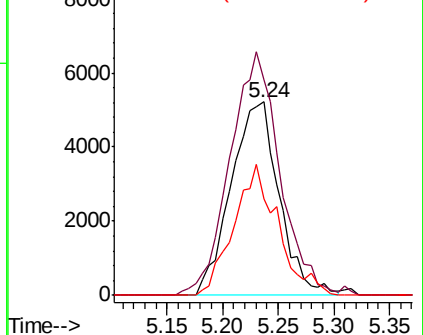
#21
trans-1,2-Dichloroethene
Concen: 4.459 ug/l
RT: 5.24 min Scan# 574
Delta R.T. 0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 96 Resp: 15704
Ion Ratio Lower Upper
96 100
61 109.6 100.4 150.6
98 50.1 44.6 66.8

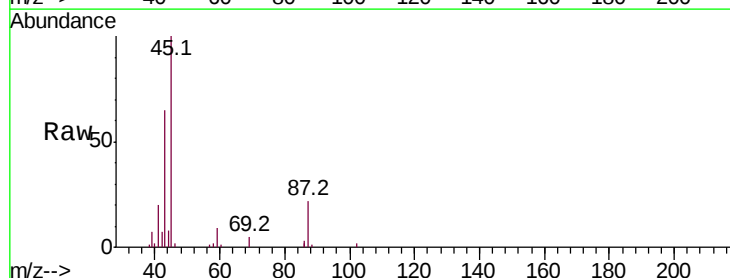


Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0

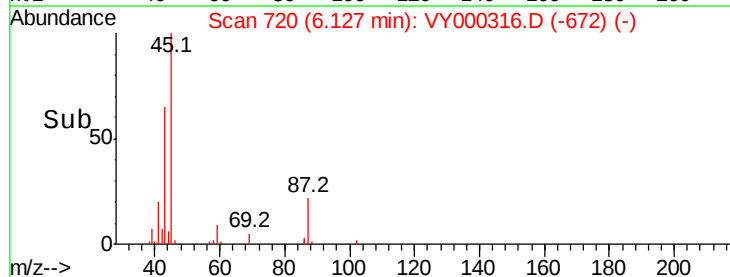
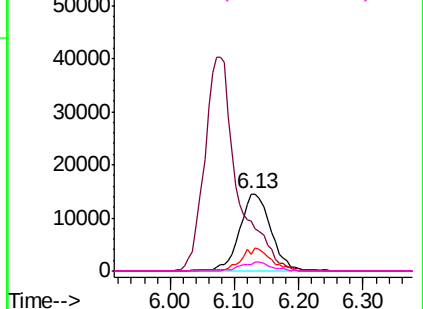


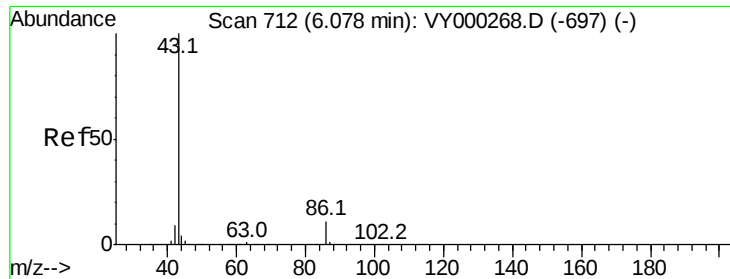
#22
Diisopropyl ether
Concen: 4.532 ug/l
RT: 6.13 min Scan# 720
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 45 Resp: 48756
Ion Ratio Lower Upper
45 100
43 64.7 48.5 72.7
87 22.5 21.5 32.3
59 9.1 9.4 14.0#



Abundance Ion 45.00 (44.70 to 45.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 87.00 (86.70 to 87.70): VY0
Ion 59.00 (58.70 to 59.70): VY0





#23

Vinyl Acetate

Concen: 20.226 ug/l

RT: 6.08 min Scan# 712

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

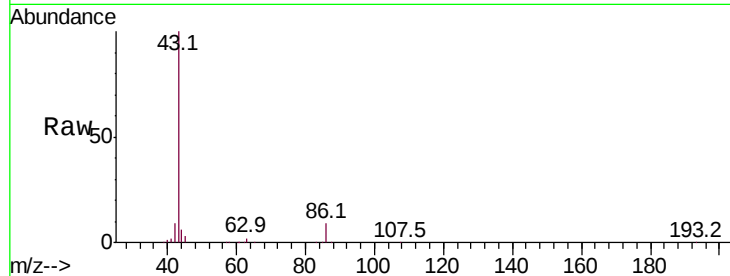
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 141955

Ion Ratio Lower Upper

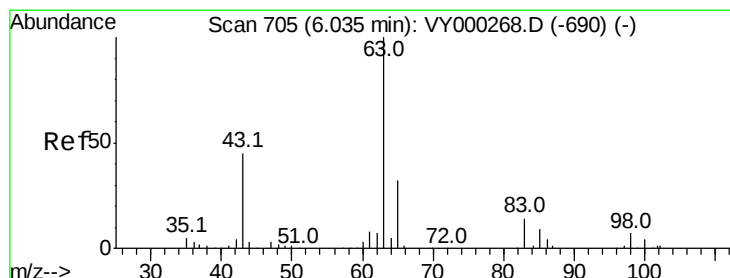
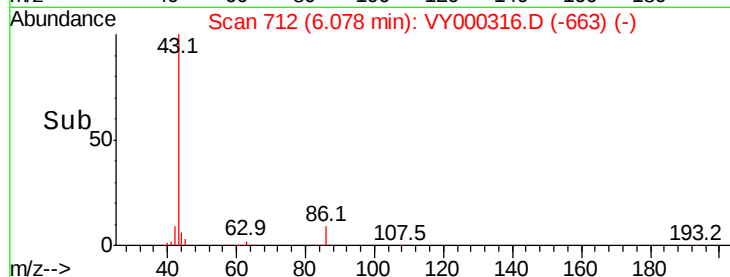
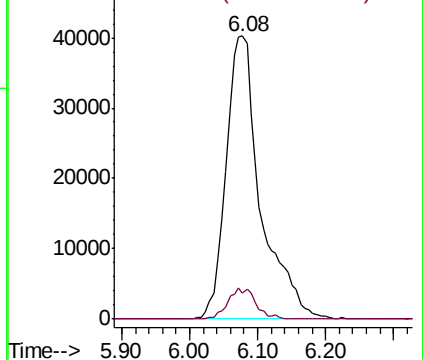
43 100

86 9.3 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0



#24

1,1-Dichloroethane

Concen: 4.439 ug/l

RT: 6.02 min Scan# 703

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

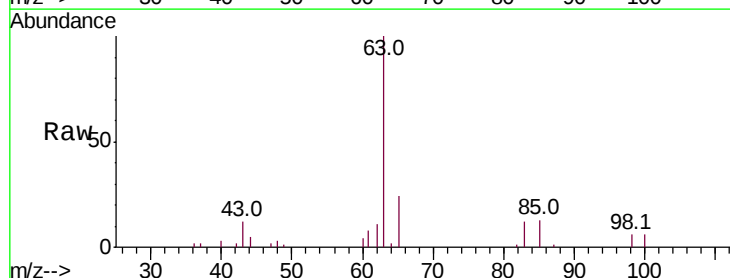
Tgt Ion: 63 Resp: 26067

Ion Ratio Lower Upper

63 100

98 6.1 3.5 10.4

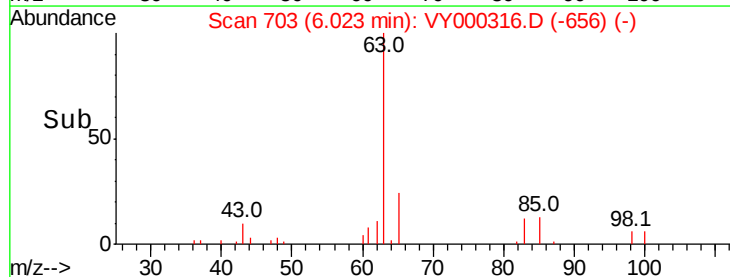
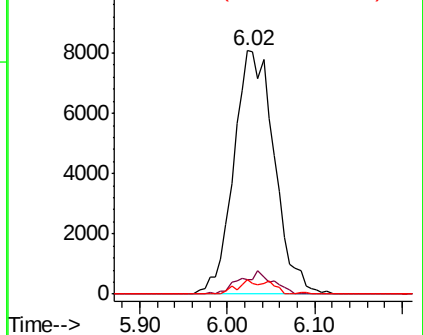
100 6.1 2.1 6.2

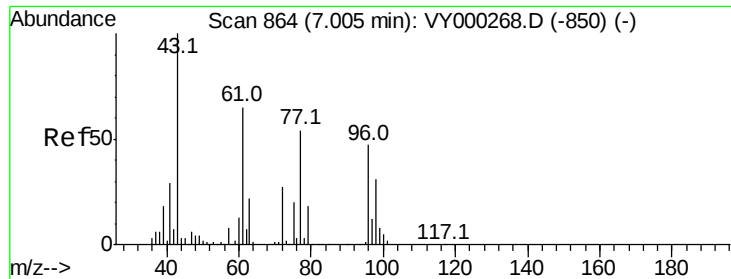


Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0





#25

2-Butanone

Concen: 21.168 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

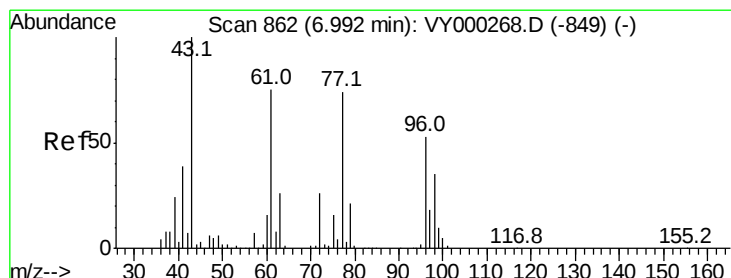
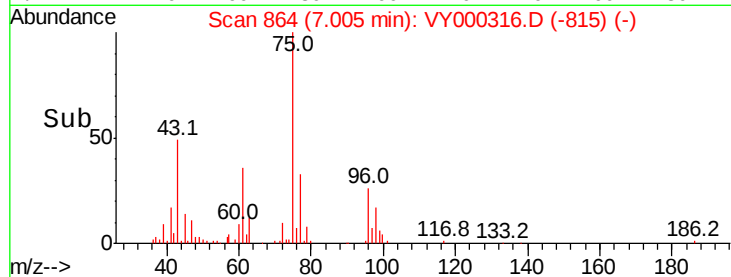
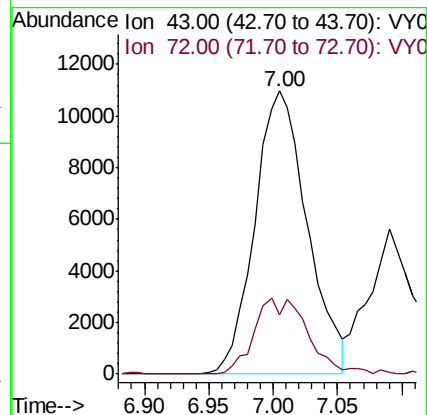
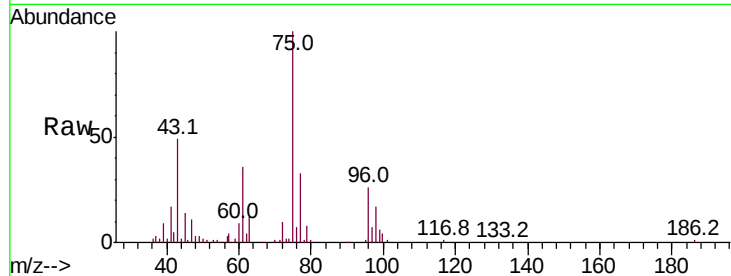
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 30956

Ion Ratio Lower Upper

43 100

72 20.9 21.4 32.2#



#26

2,2-Dichloropropane

Concen: 4.670 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.01 min

Lab File: VY000316.D

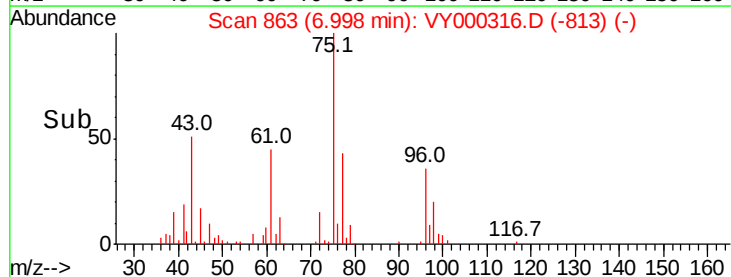
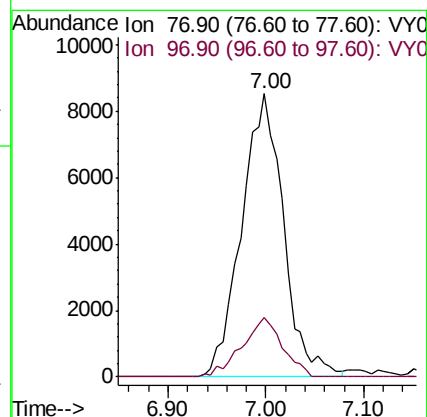
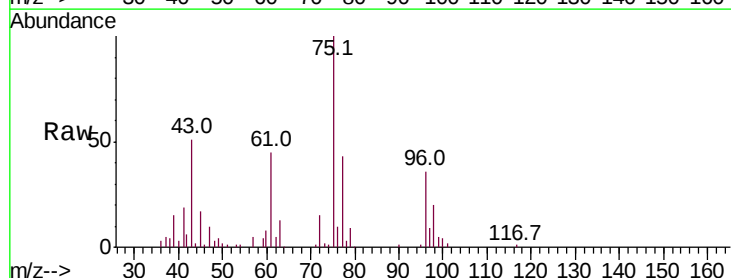
Acq: 15 Oct 2019 13:39

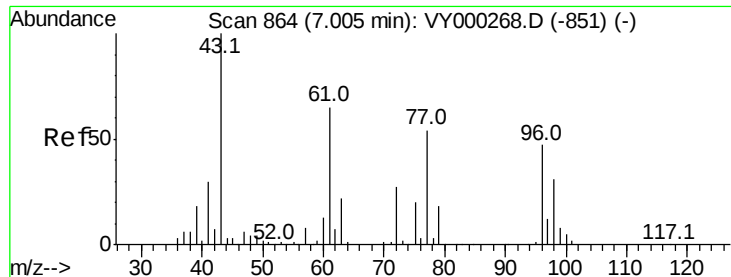
Tgt Ion: 77 Resp: 25268

Ion Ratio Lower Upper

77 100

97 20.2 11.6 34.7



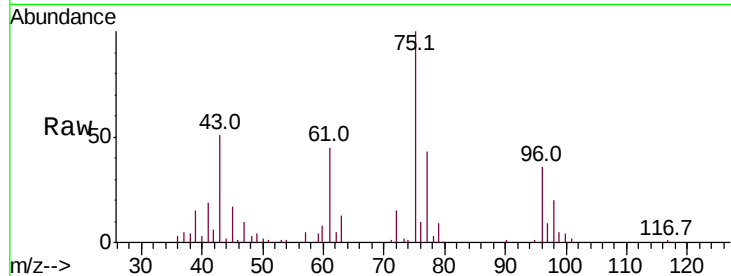


#27

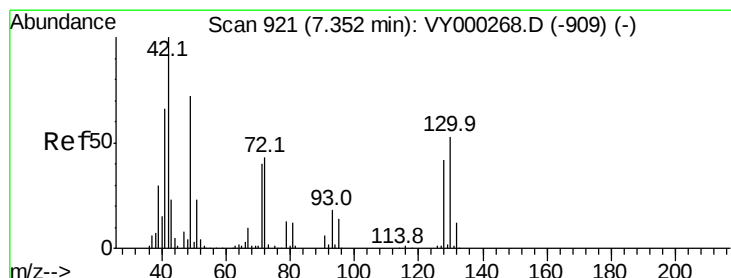
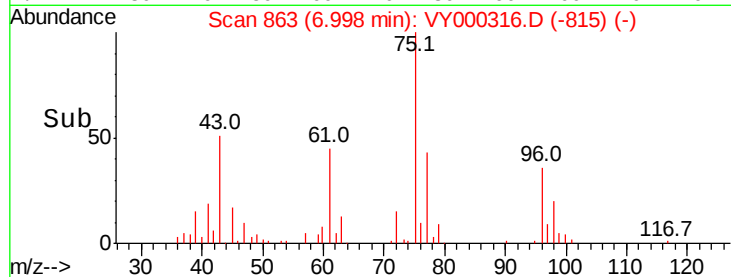
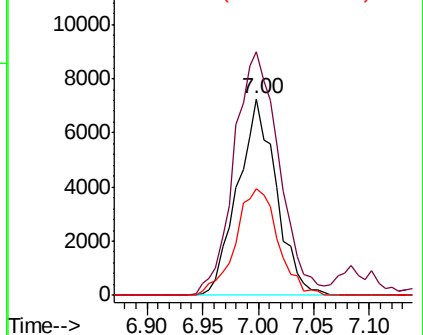
cis-1,2-Dichloroethene
Concen: 4.594 ug/l
RT: 7.00 min Scan# 863
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 96 Resp: 17504
Ion Ratio Lower Upper
96 100
61 144.8 0.0 289.8
98 59.4 0.0 131.8



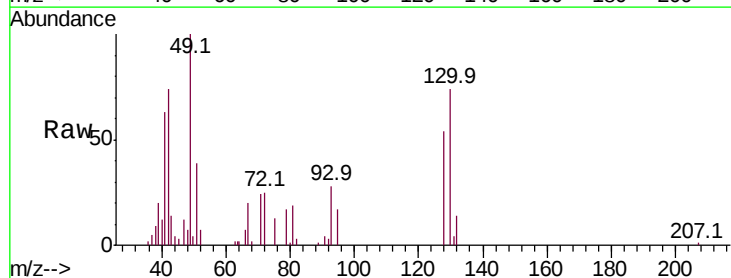
Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



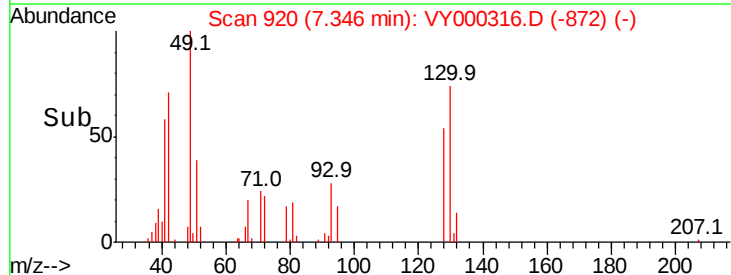
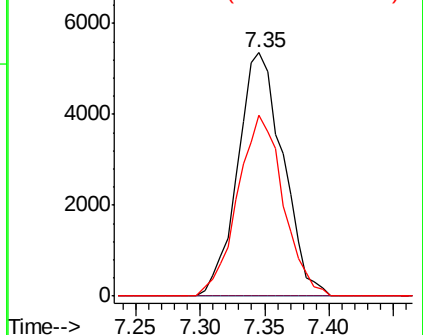
#28

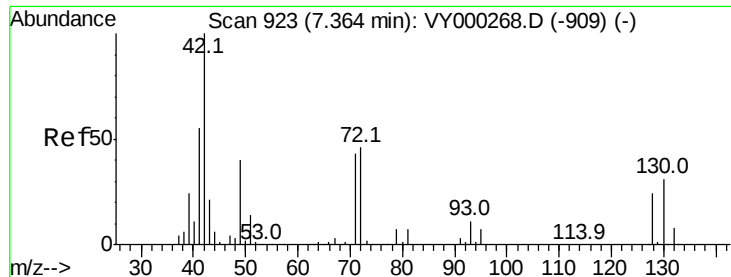
Bromochloromethane
Concen: 5.175 ug/l
RT: 7.35 min Scan# 920
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 49 Resp: 13046
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 75.0 58.2 87.2



Abundance Ion 48.90 (48.60 to 49.60): VY0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

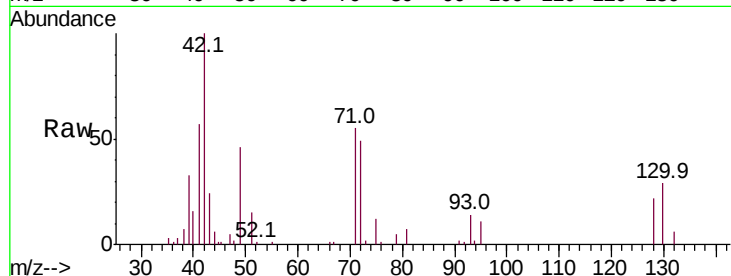




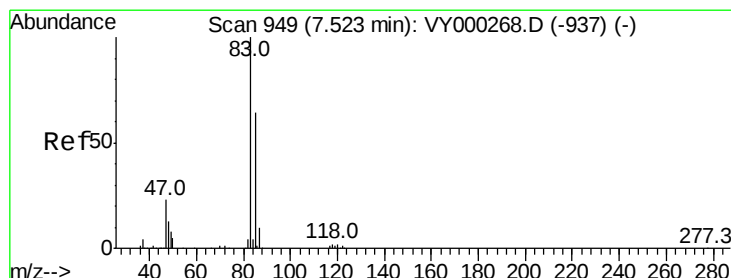
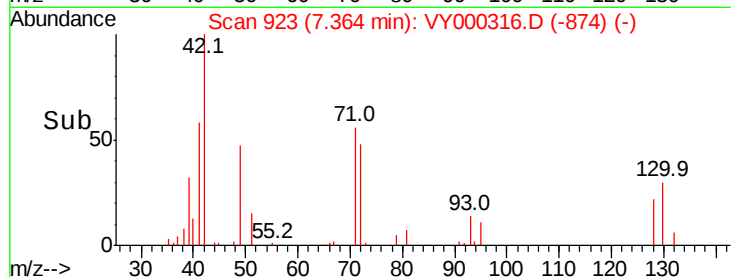
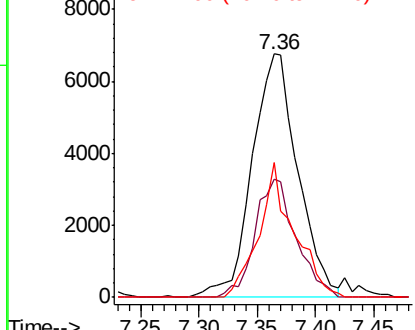
#29
Tetrahydrofuran
Concen: 20.806 ug/l
RT: 7.36 min Scan# 923
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 42 Resp: 18440
Ion Ratio Lower Upper
42 100
72 43.5 34.5 51.7
71 42.3 32.7 49.1

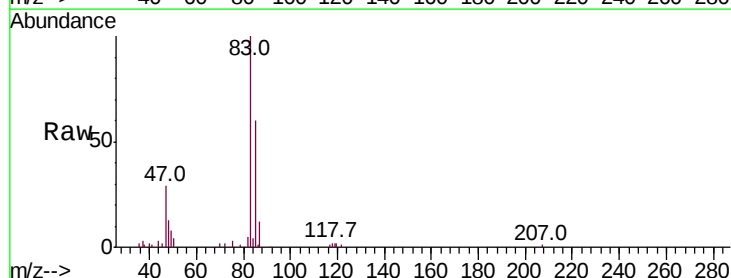


Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0

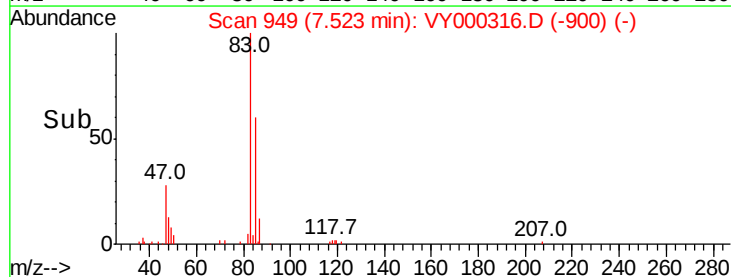
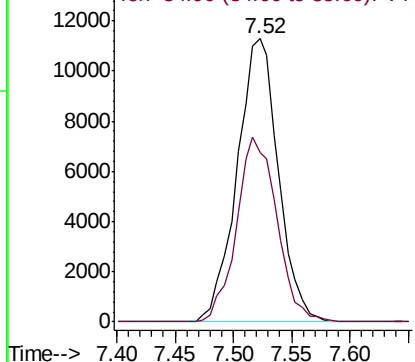


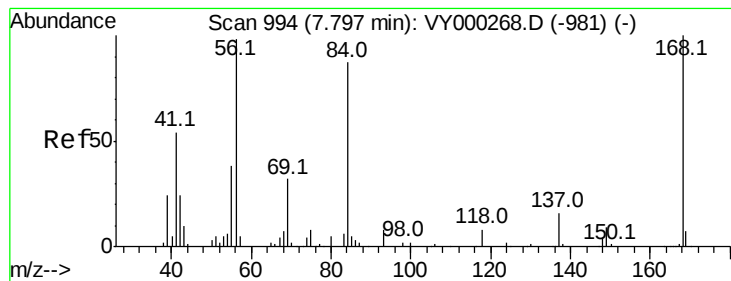
#30
Chloroform
Concen: 4.710 ug/l
RT: 7.52 min Scan# 949
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 83 Resp: 27851
Ion Ratio Lower Upper
83 100
85 60.0 51.4 77.2



Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 84.90 (84.60 to 85.60): VY0





#31

Cyclohexane

Concen: 5.292 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

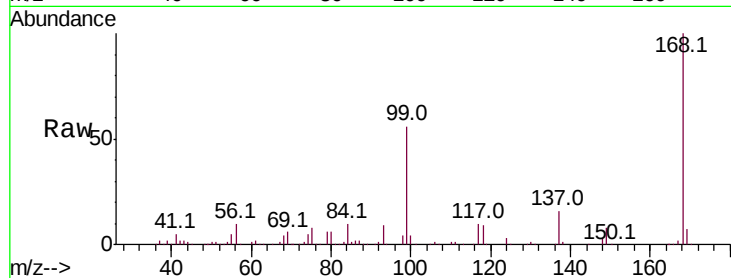
MSVOA_Y

ClientSampleId :

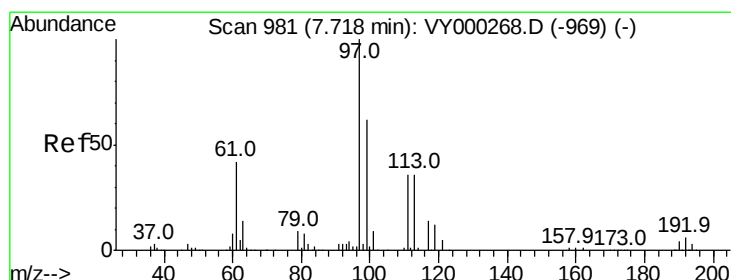
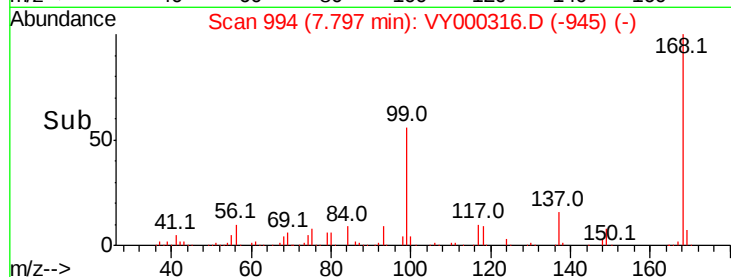
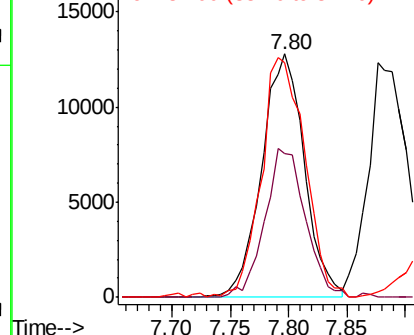
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 56 Resp: 32458

Ion	Ratio	Lower	Upper
56	100		
69	59.2	26.3	39.5#
84	95.5	70.8	106.2



Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0



#32

1,1,1-Trichloroethane

Concen: 4.315 ug/l

RT: 7.71 min Scan# 980

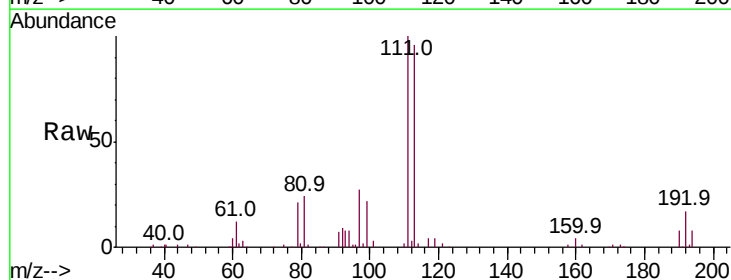
Delta R.T. -0.01 min

Lab File: VY000316.D

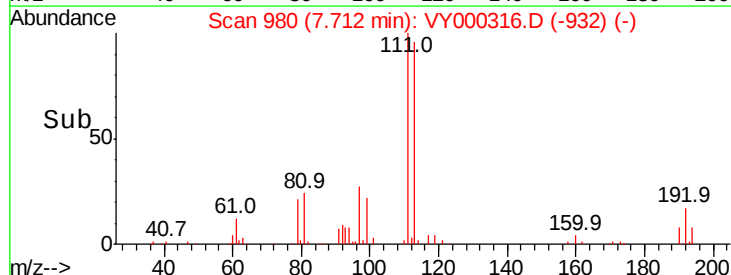
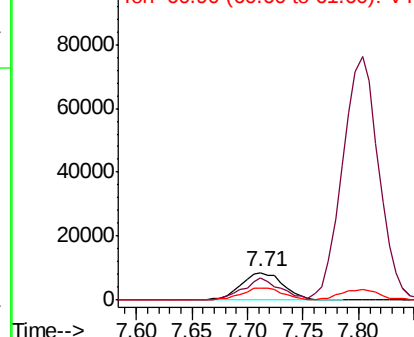
Acq: 15 Oct 2019 13:39

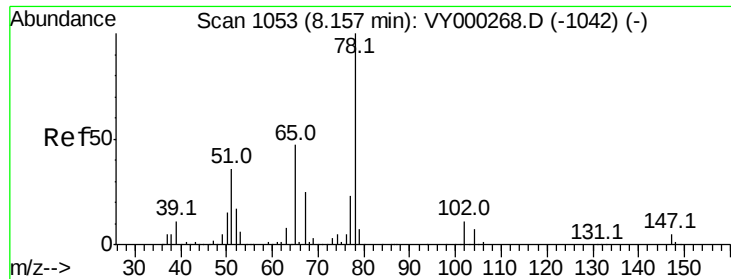
Tgt Ion: 97 Resp: 22686

Ion	Ratio	Lower	Upper
97	100		
99	69.8	51.7	77.5
61	43.0	34.5	51.7



Abundance Ion 96.90 (96.60 to 97.60): VY0
Ion 98.90 (98.60 to 99.60): VY0
Ion 60.90 (60.60 to 61.60): VY0





#33

1,2-Dichloroethane-d4

Concen: 55.744 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

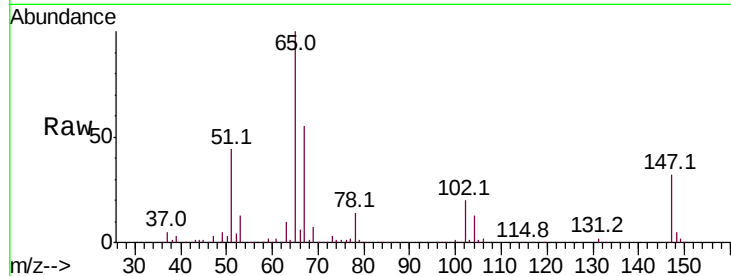
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 65 Resp: 178699

Ion Ratio Lower Upper

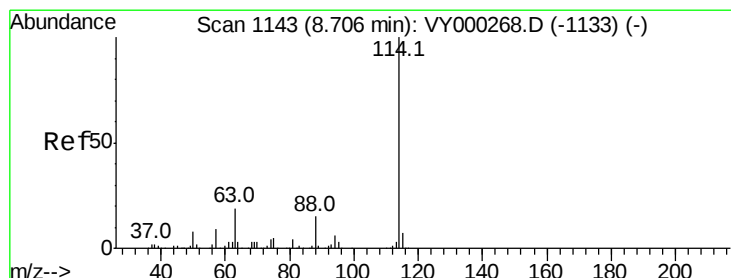
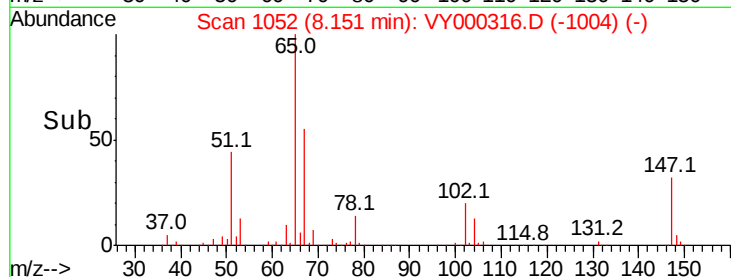
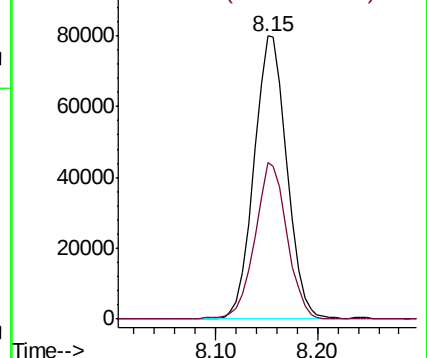
65 100

67 54.4 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

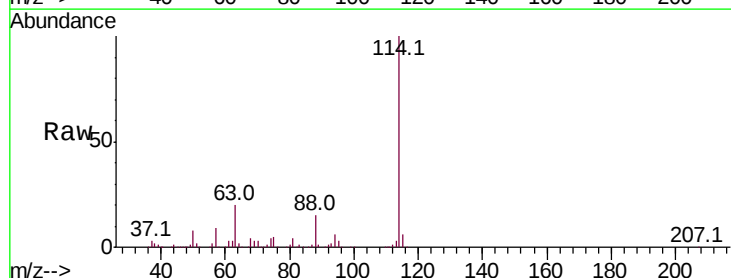
Tgt Ion:114 Resp: 511951

Ion Ratio Lower Upper

114 100

63 19.7 0.0 37.2

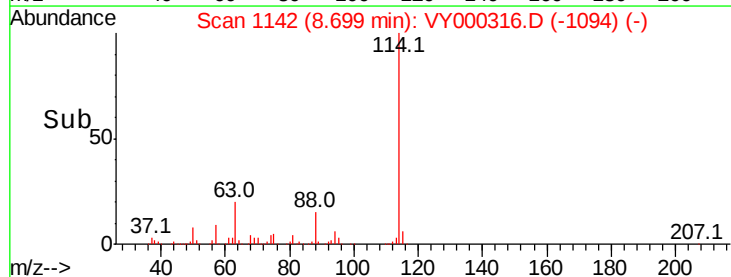
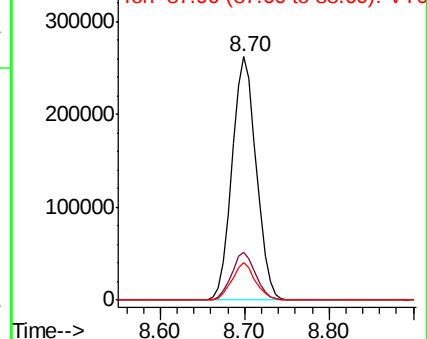
88 15.3 0.0 30.2

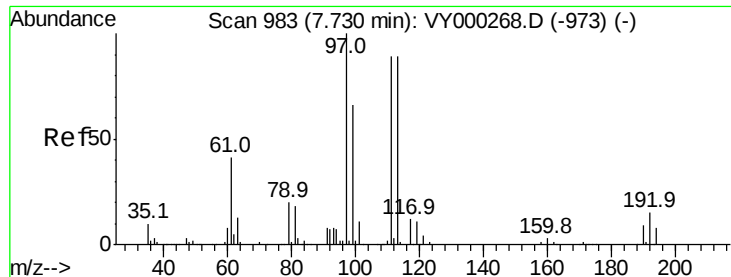


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

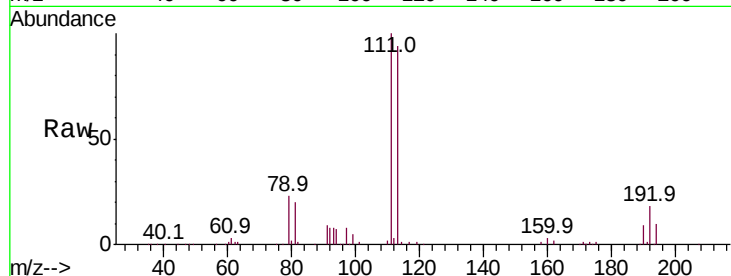




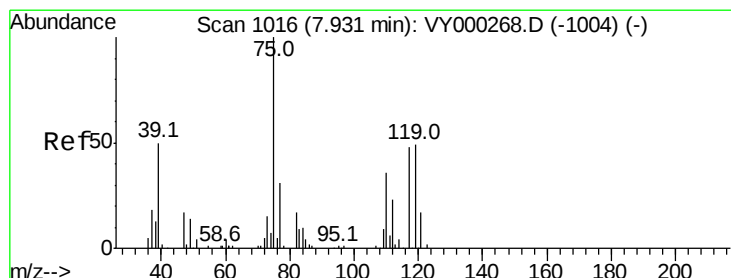
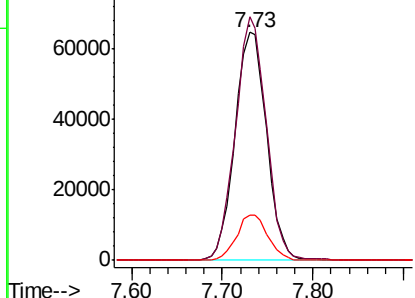
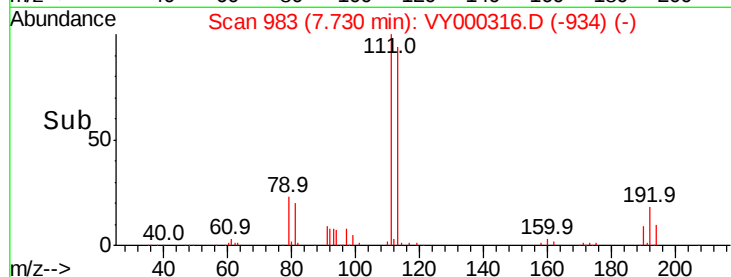
#35
 Dibromofluoromethane
 Concen: 51.041 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.00 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion:113 Resp: 157621
 Ion Ratio Lower Upper
 113 100
 111 103.6 81.6 122.4
 192 19.5 15.3 22.9

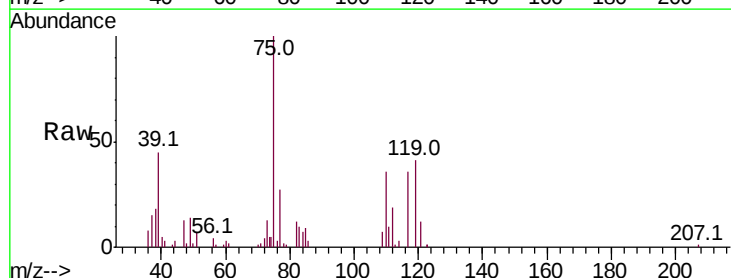


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

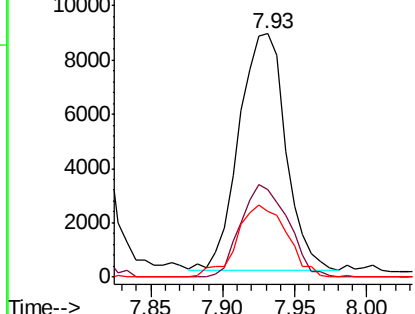
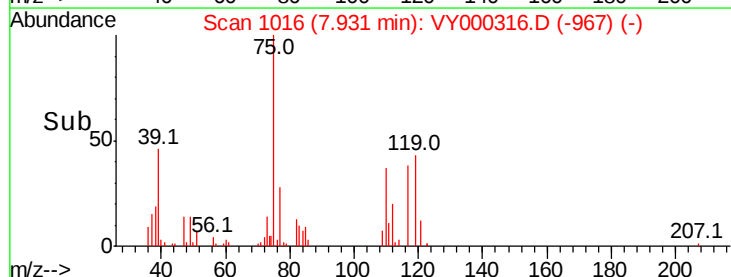


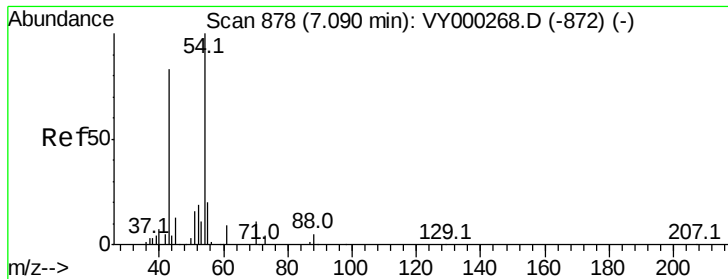
#36
 1,1-Dichloropropene
 Concen: 3.915 ug/l
 RT: 7.93 min Scan# 1016
 Delta R.T. -0.00 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Tgt Ion: 75 Resp: 19622
 Ion Ratio Lower Upper
 75 100
 110 39.5 18.4 55.4
 77 32.8 25.0 37.6



Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VY0

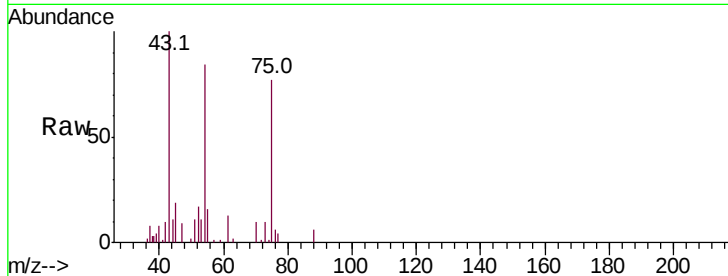




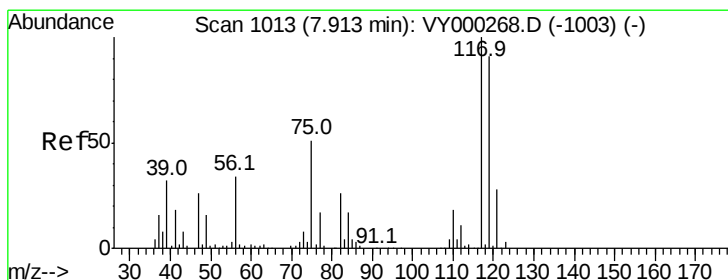
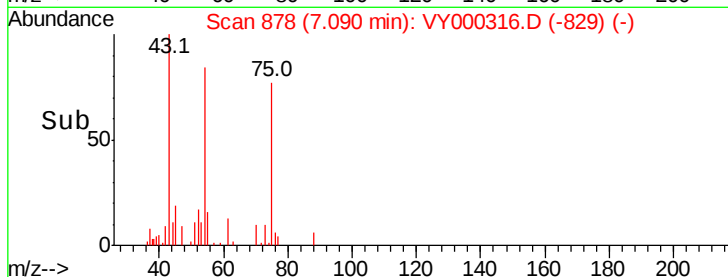
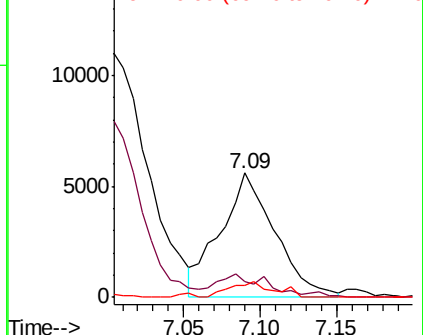
#37
Ethyl Acetate
Concen: 4.693 ug/l
RT: 7.09 min Scan# 878
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 13929
Ion Ratio Lower Upper
43 100
61 18.2 12.1 18.1#
70 10.0 8.7 13.1

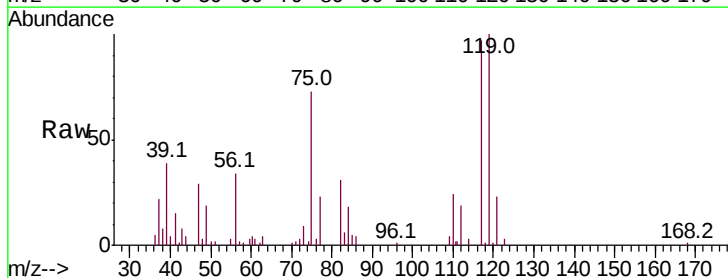


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

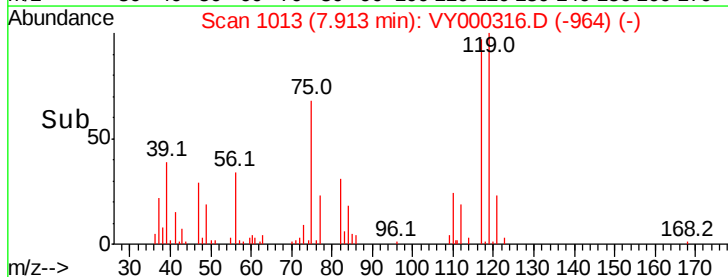
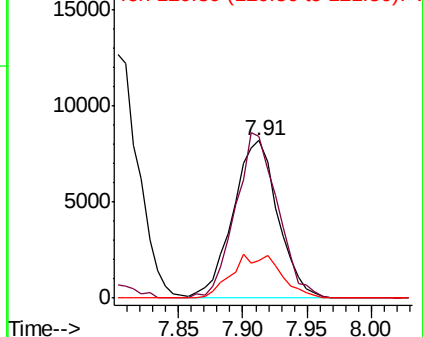


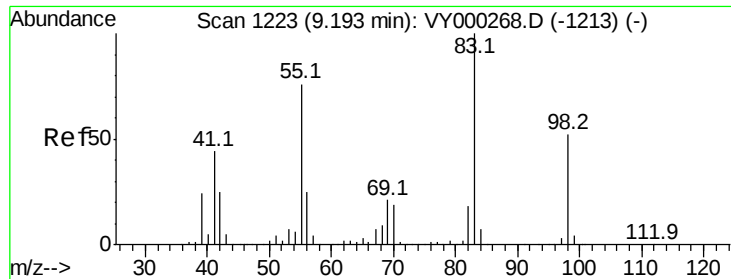
#38
Carbon Tetrachloride
Concen: 4.111 ug/l
RT: 7.91 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 117 Resp: 19949
Ion Ratio Lower Upper
117 100
119 102.6 72.8 109.2
121 23.6 22.2 33.2



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

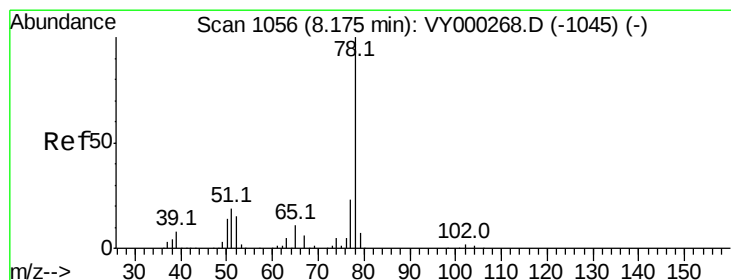
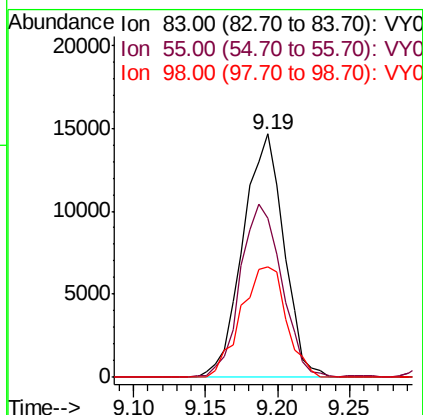
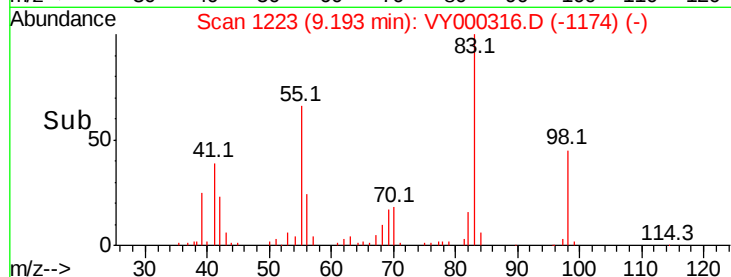
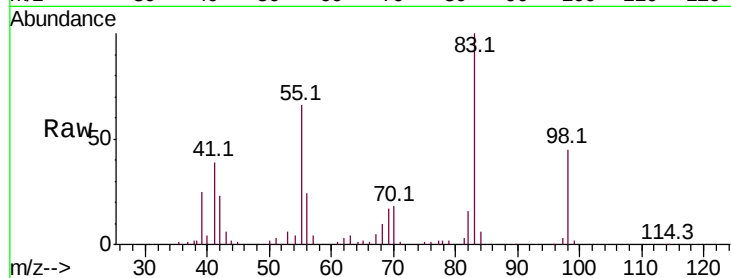




#39
Methylvlcvclohexane
Concen: 4.393 ug/l
RT: 9.19 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

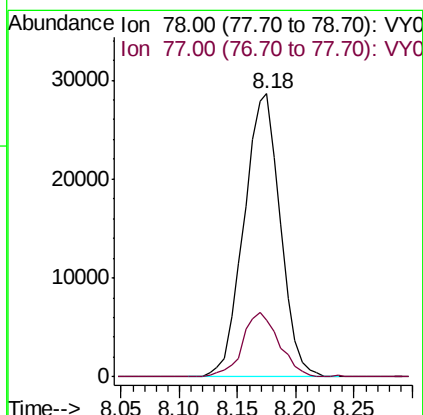
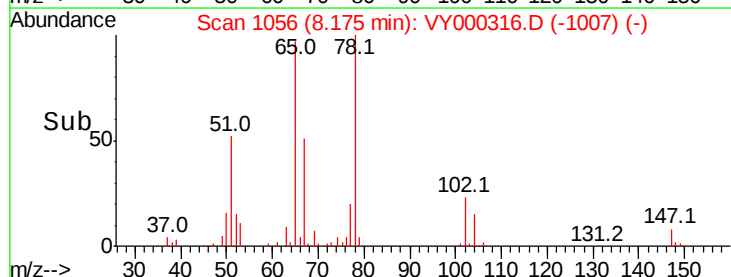
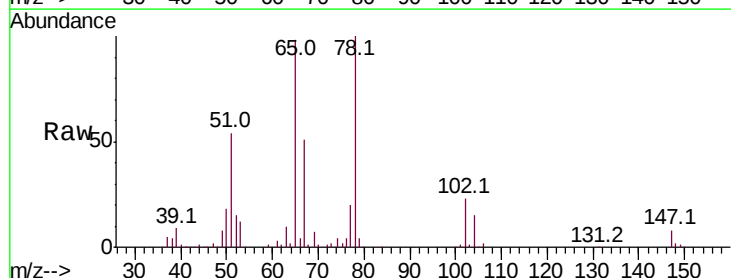
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

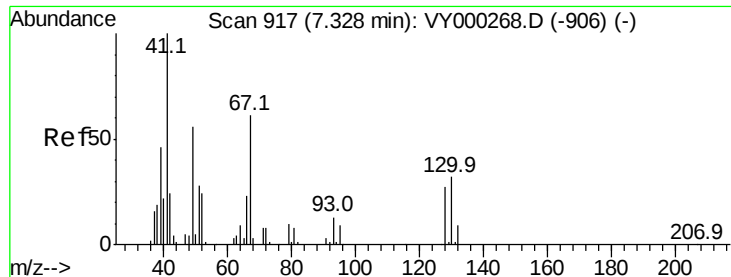
Tot Ion: 83 Resp: 28820
Ion Ratio Lower Upper
83 100
55 65.2 60.9 91.3
98 45.3 41.8 62.6



#40
Benzene
Concen: 4.313 ug/l
RT: 8.18 min Scan# 1056
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 78 Resp: 62474
Ion Ratio Lower Upper
78 100
77 20.3 18.8 28.2

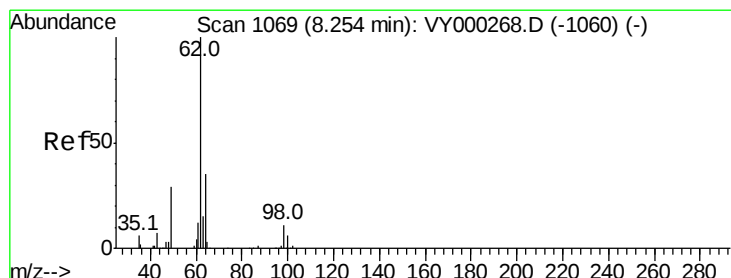
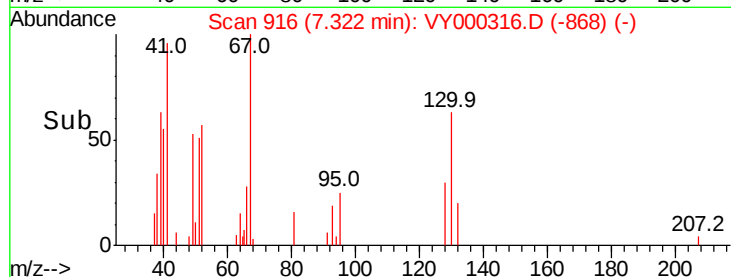
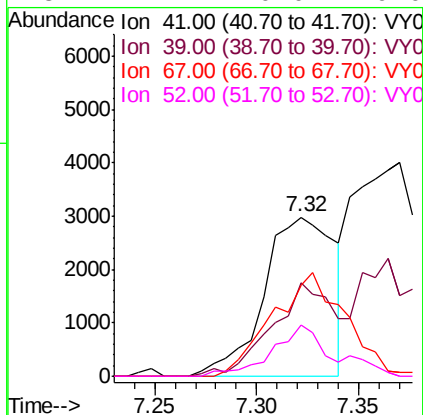
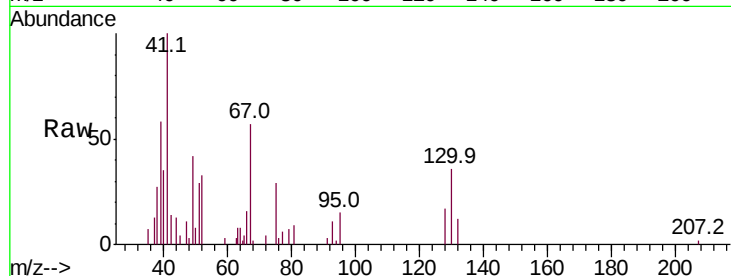




#41
Methacrylonitrile
Concen: 5.109 ug/l
RT: 7.32 min Scan# 916
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

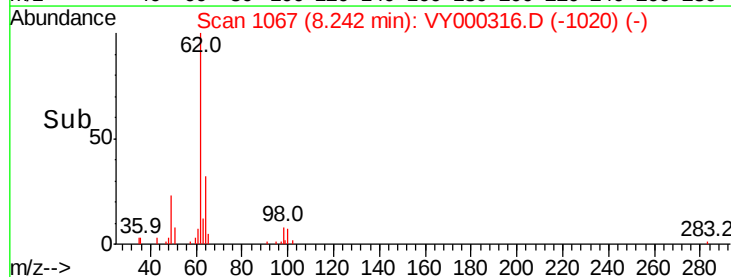
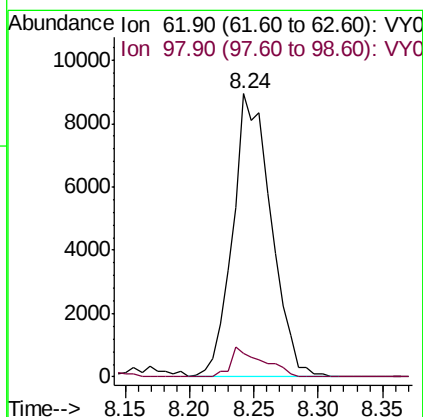
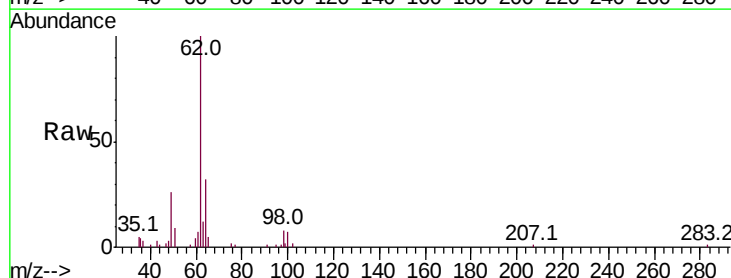
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

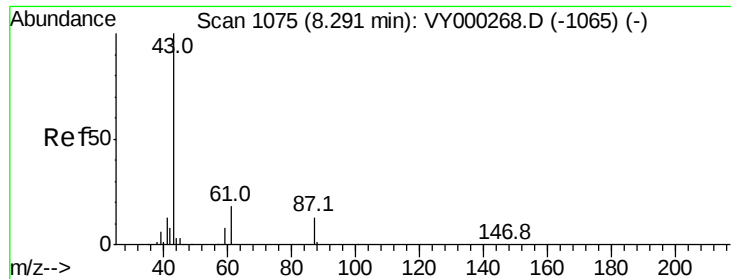
Tot Ion: 41 Resp: 7218
Ion Ratio Lower Upper
41 100
39 55.2 110.2 165.2#
67 67.0 0.0 0.0#
52 27.7 0.0 0.0#



#42
1,2-Dichloroethane
Concen: 4.485 ug/l
RT: 8.24 min Scan# 1067
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 62 Resp: 18558
Ion Ratio Lower Upper
62 100
98 8.8 0.0 20.6

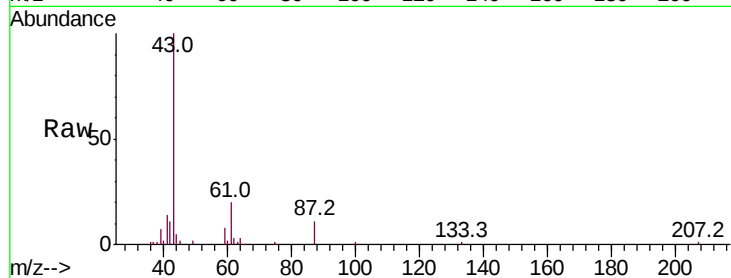




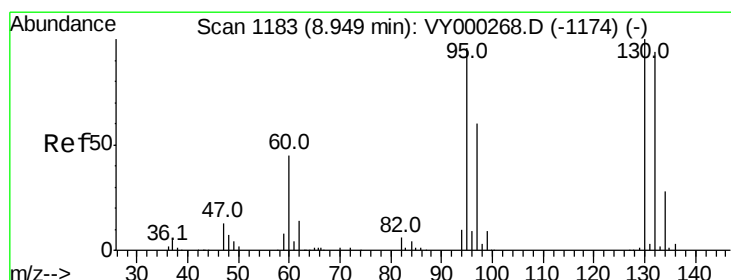
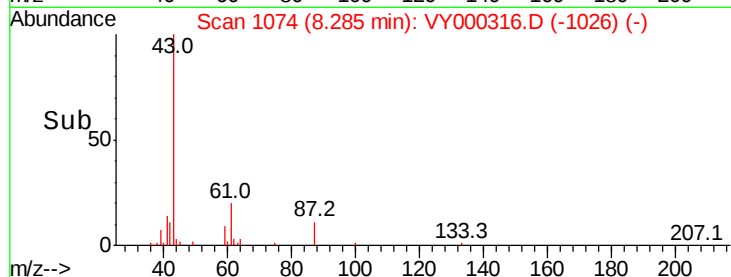
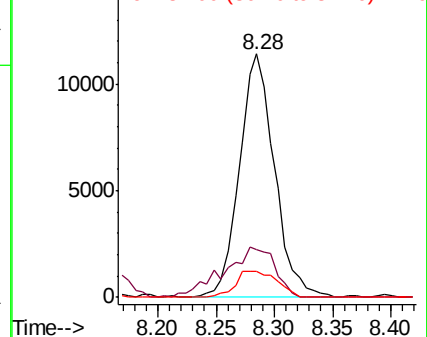
#43
Isopropyl Acetate
Concen: 4.233 ug/l
RT: 8.28 min Scan# 1074
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	43	Resp	23885
Ion Ratio	100	Lower	Upper
61	30.1	22.3	33.5
87	12.9	10.9	16.3

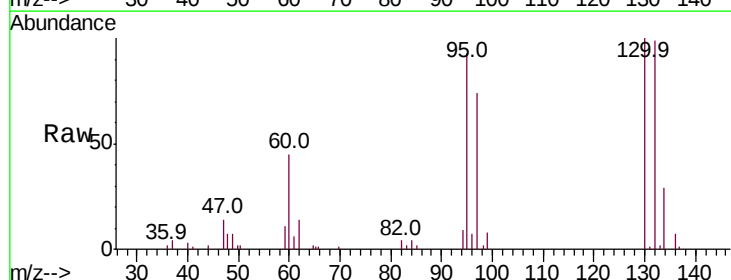


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 87.00 (86.70 to 87.70): VY0

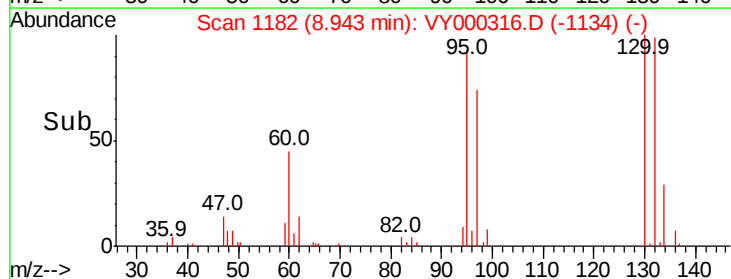
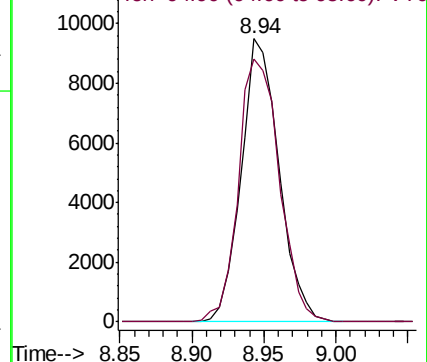


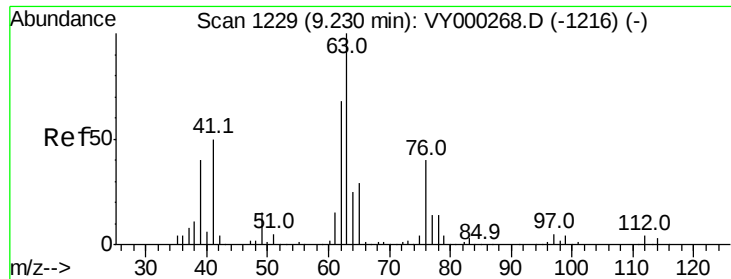
#44
Trichloroethene
Concen: 4.256 ug/l
RT: 8.94 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion	130	Resp	17299
Ion Ratio	100	Lower	Upper
95	92.7	0.0	191.4



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VY0





#45

1,2-Dichloropropane

Concen: 4.472 ug/l

RT: 9.22 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

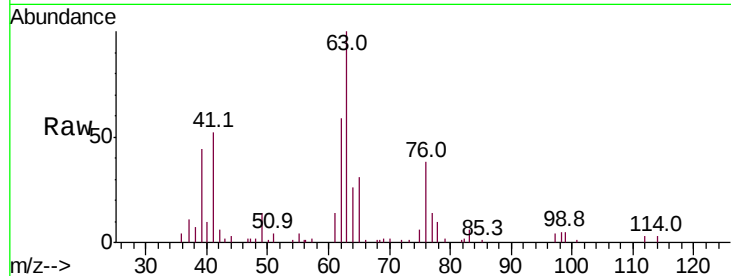
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 63 Resp: 15898

Ion Ratio Lower Upper

63 100

65 31.1 23.2 34.8



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 64.90 (64.60 to 65.60): VY0

9.22

8000

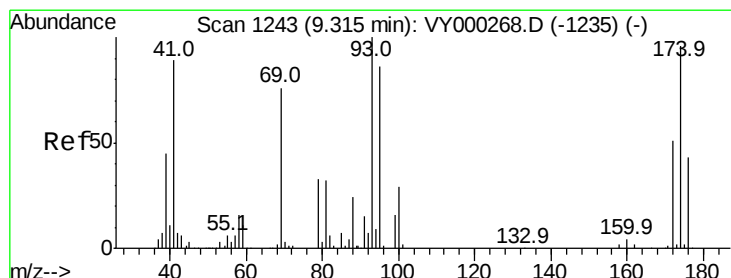
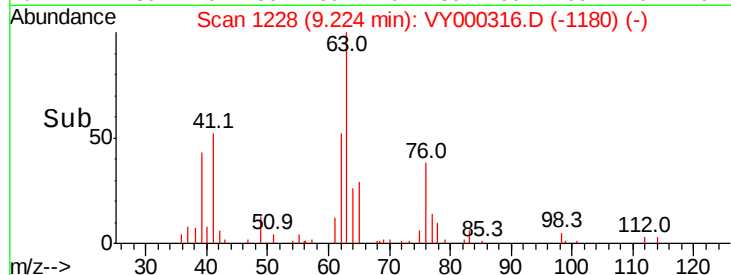
6000

4000

2000

0

Time--> 9.10 9.15 9.20 9.25 9.30



#46

Dibromomethane

Concen: 4.333 ug/l

RT: 9.31 min Scan# 1242

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

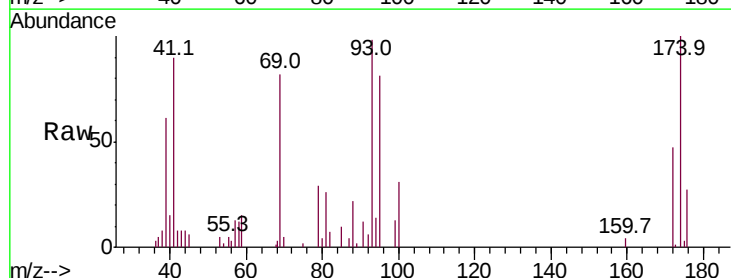
Tgt Ion: 93 Resp: 8611

Ion Ratio Lower Upper

93 100

95 85.2 68.2 102.2

174 97.6 79.8 119.6



Abundance Ion 92.80 (92.50 to 93.50): VY0

Ion 94.80 (94.50 to 95.50): VY0

Ion 173.70 (173.40 to 174.40): V

6000

5000

4000

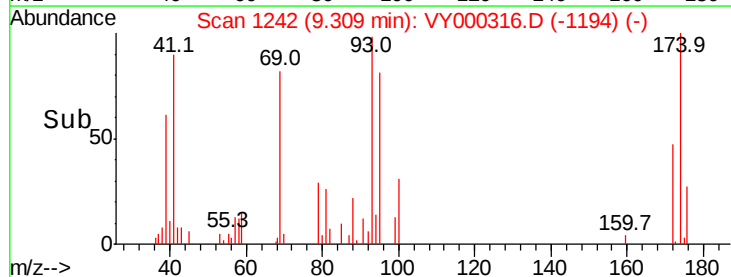
3000

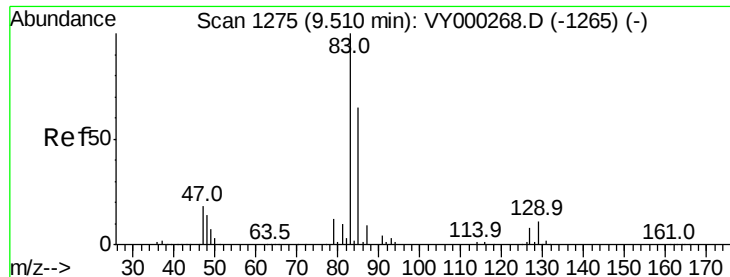
2000

1000

0

Time--> 9.25 9.30 9.35





#47

Bromodichloromethane

Concen: 4.213 ug/l

RT: 9.50 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

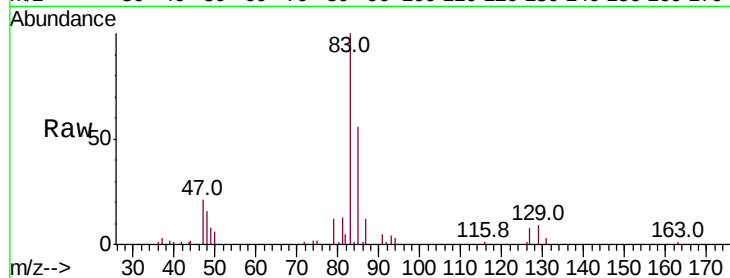
Tot Ion: 83 Resp: 19732

Ion Ratio Lower Upper

83 100

85 56.1 52.2 78.2

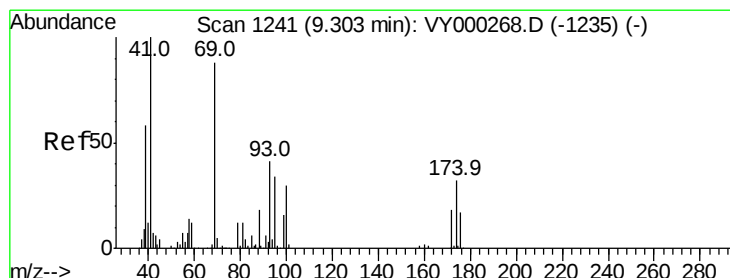
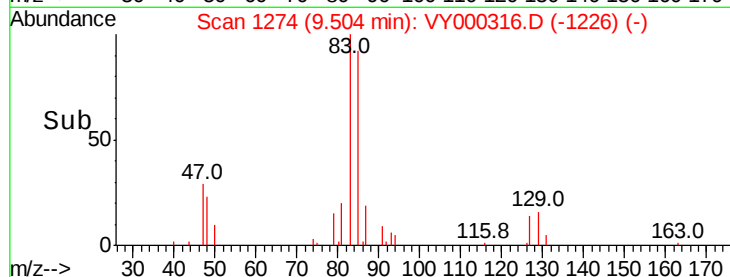
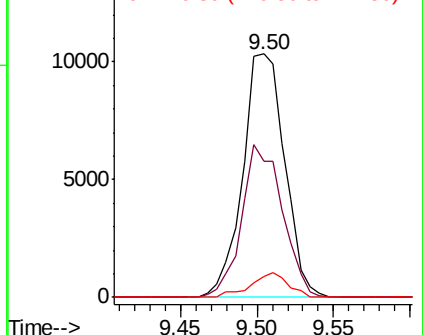
127 8.5 6.3 9.5



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 126.80 (126.50 to 127.50): VY0



#48

Methyl methacrylate

Concen: 3.843 ug/l

RT: 9.30 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

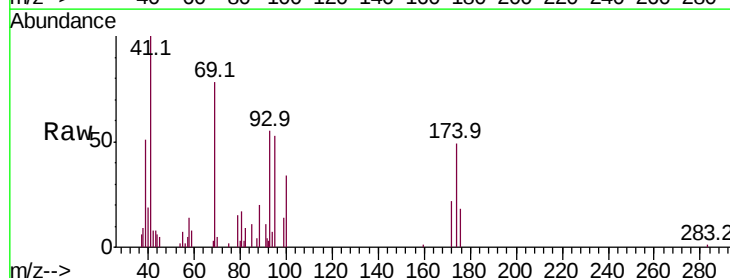
Tgt Ion: 41 Resp: 9504

Ion Ratio Lower Upper

41 100

69 90.2 70.0 105.0

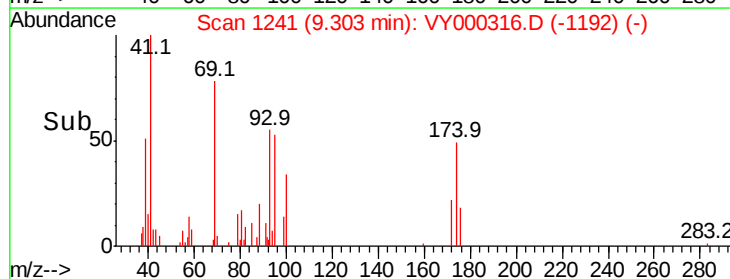
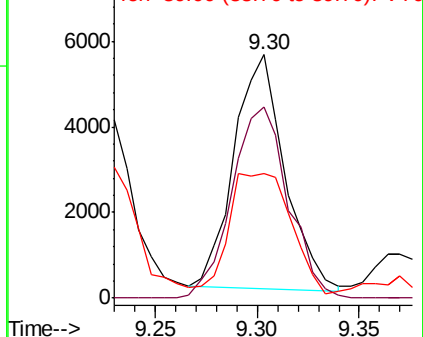
39 65.5 47.7 71.5

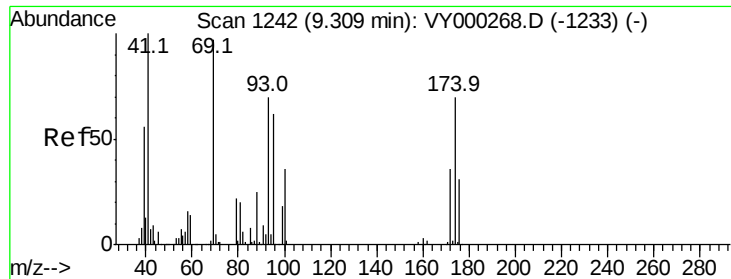


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

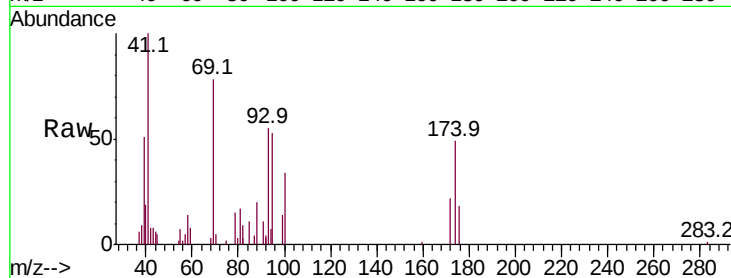




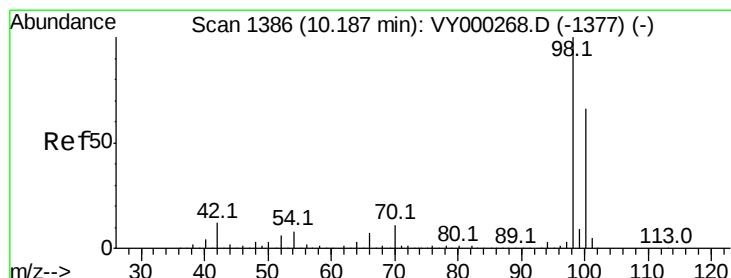
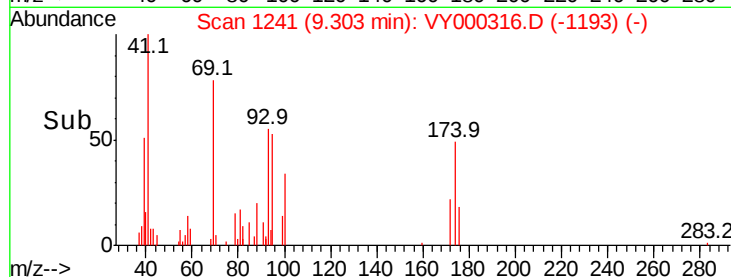
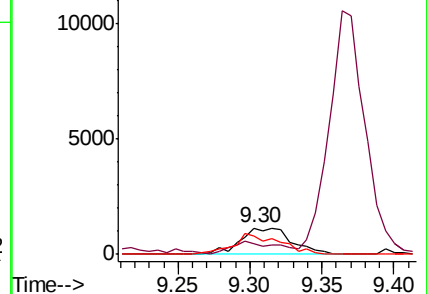
#49
1,4-Dioxane
Concen: 94.010 ug/l
RT: 9.30 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 88 Resp: 2801
Ion Ratio Lower Upper
88 100
43 46.3 25.6 38.4#
58 71.7 54.6 81.8

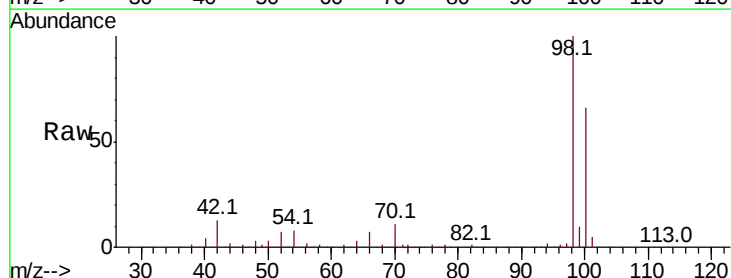


Abundance Ion 88.00 (87.70 to 88.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

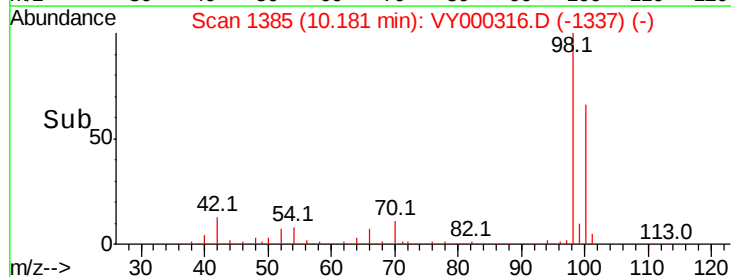
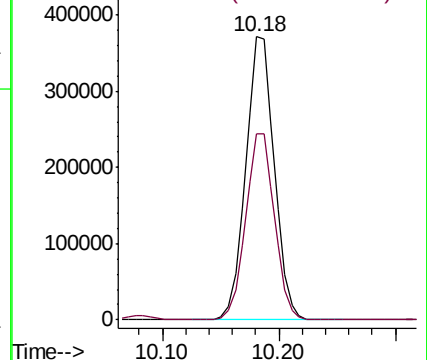


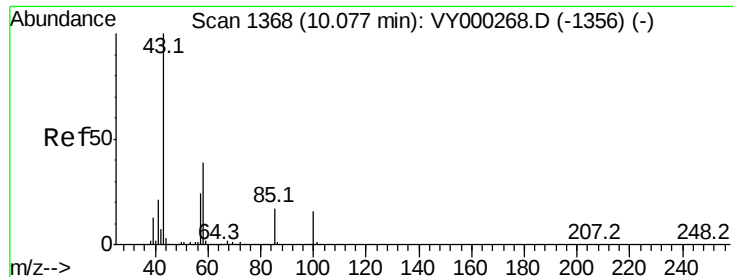
#50
Toluene-d8
Concen: 53.424 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 98 Resp: 634640
Ion Ratio Lower Upper
98 100
100 66.6 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 21.825 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

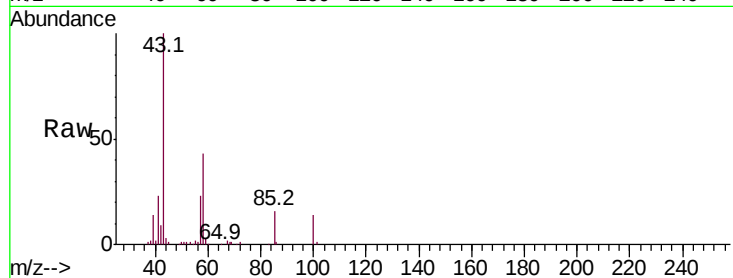
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 63524

Ion Ratio Lower Upper

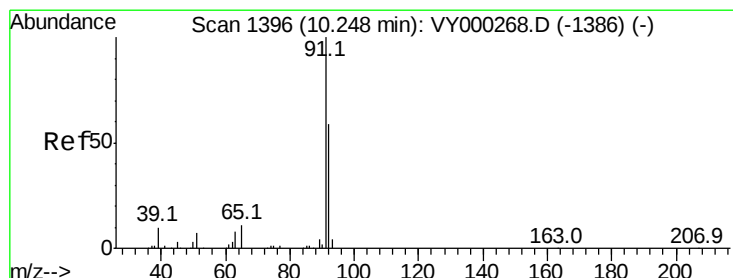
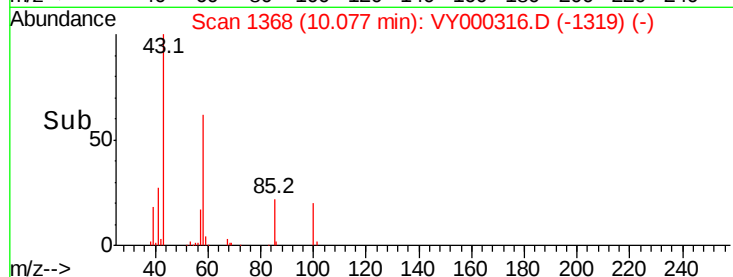
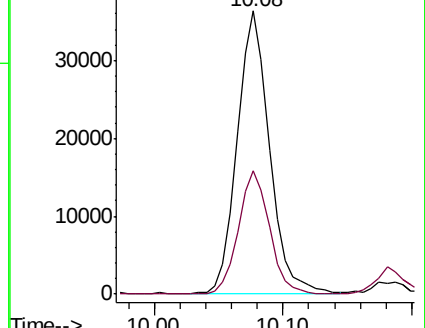
43 100

58 41.5 31.0 46.6



Abundance Ion 43.00 (42.70 to 43.70): VY000316.D (-1356) (-)

Ion 58.00 (57.70 to 58.70): VY000316.D (-1356) (-)



#52

Toluene

Concen: 4.349 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VY000316.D

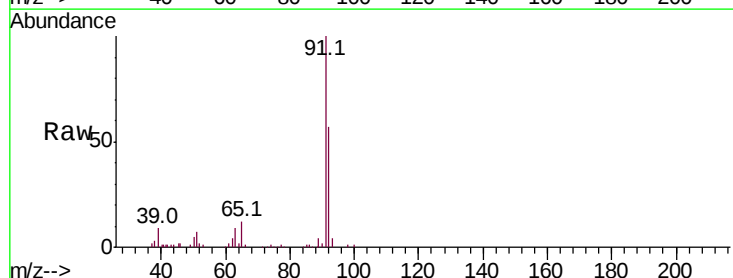
Acq: 15 Oct 2019 13:39

Tgt Ion: 92 Resp: 39998

Ion Ratio Lower Upper

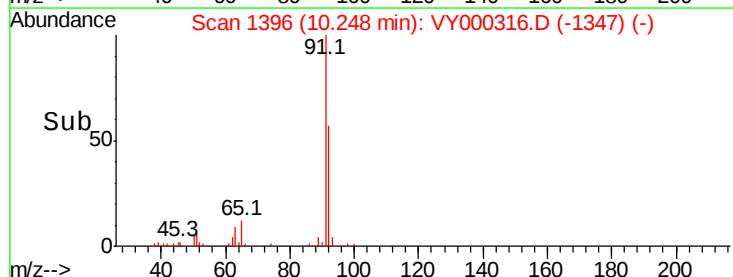
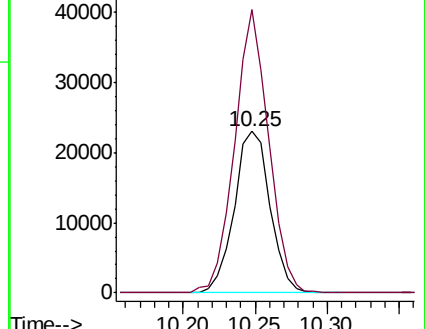
92 100

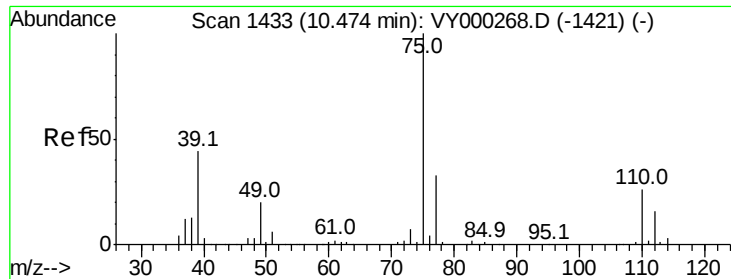
91 165.5 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VY000316.D (-1386) (-)

Ion 91.00 (90.70 to 91.70): VY000316.D (-1386) (-)





#53

t-1,3-Dichloropropene

Concen: 4.186 ug/l

RT: 10.47 min Scan# 1432

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

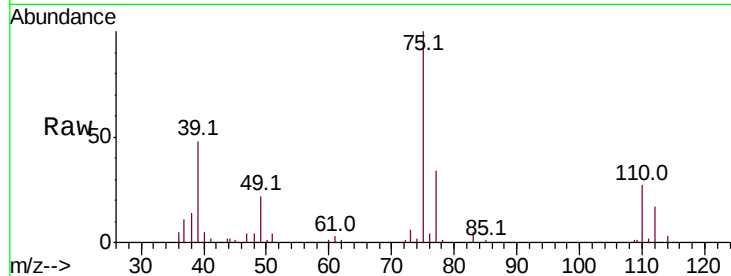
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 75 Resp: 21011

Ion Ratio Lower Upper

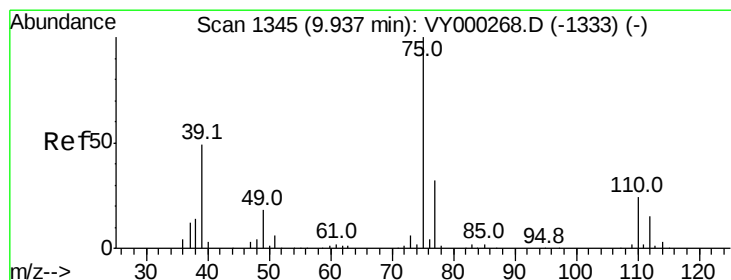
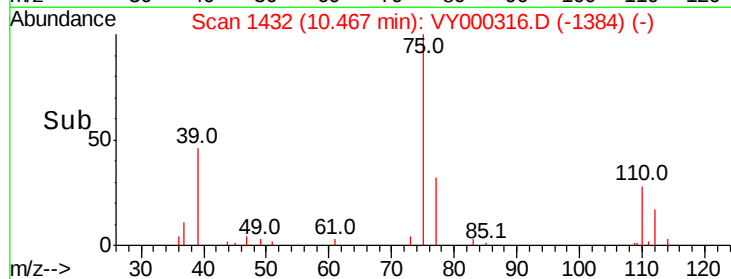
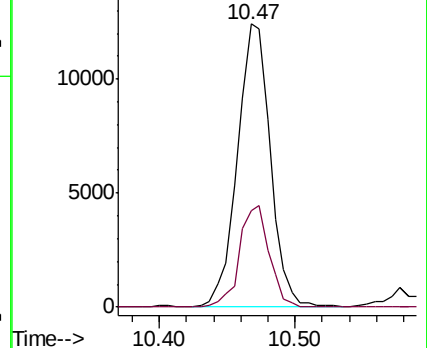
75 100

77 34.2 26.0 39.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 76.90 (76.60 to 77.60): VY0



#54

cis-1,3-Dichloropropene

Concen: 4.168 ug/l

RT: 9.93 min Scan# 1344

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

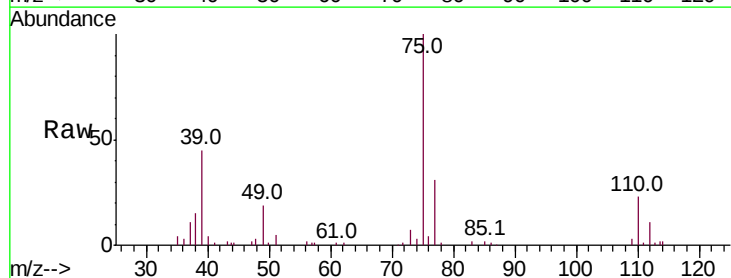
Tgt Ion: 75 Resp: 23758

Ion Ratio Lower Upper

75 100

77 30.9 26.0 39.0

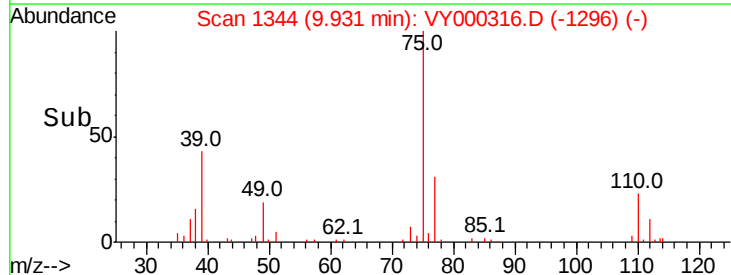
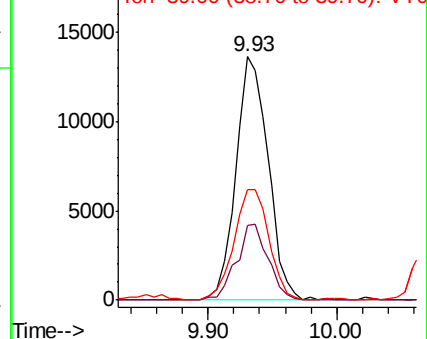
39 45.2 38.8 58.2

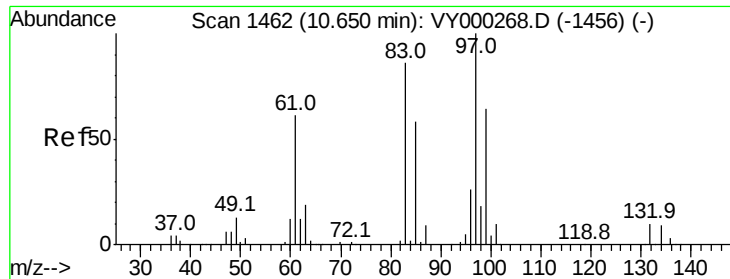


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 76.90 (76.60 to 77.60): VY0

Ion 39.00 (38.70 to 39.70): VY0

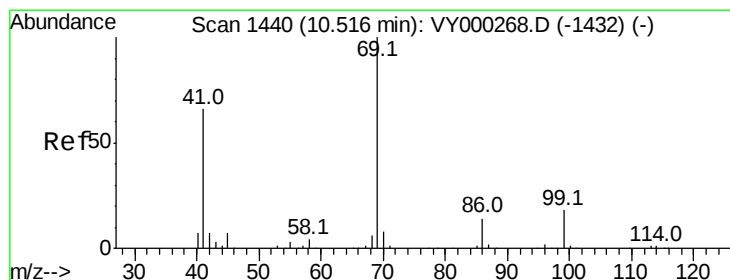
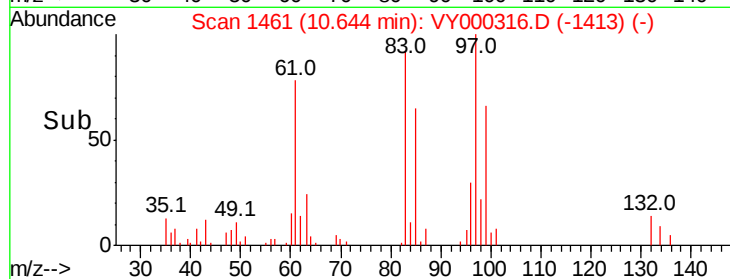
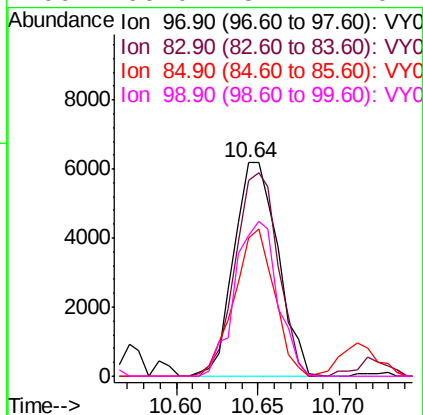
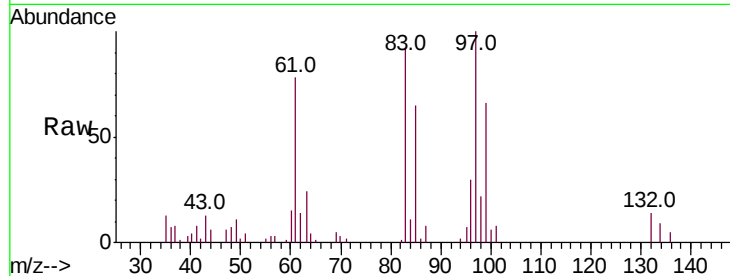




#55
 1,1,2-Trichloroethane
 Concen: 4.035 ug/l
 RT: 10.64 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

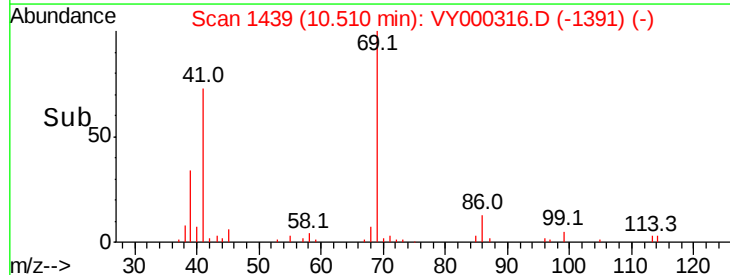
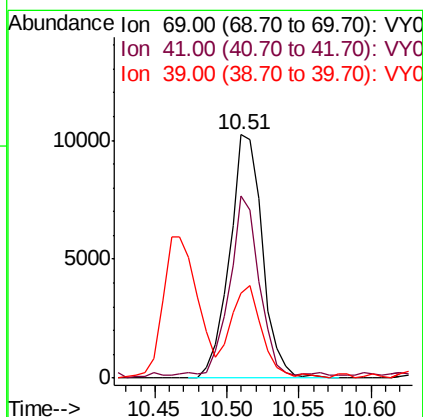
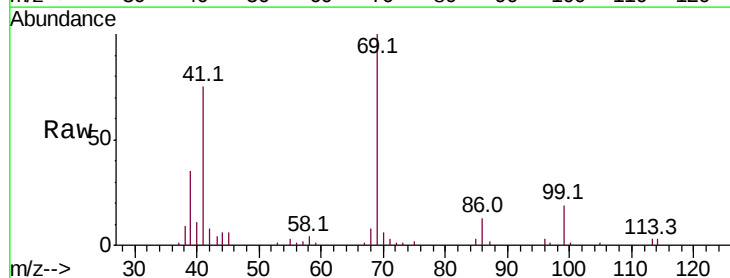
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

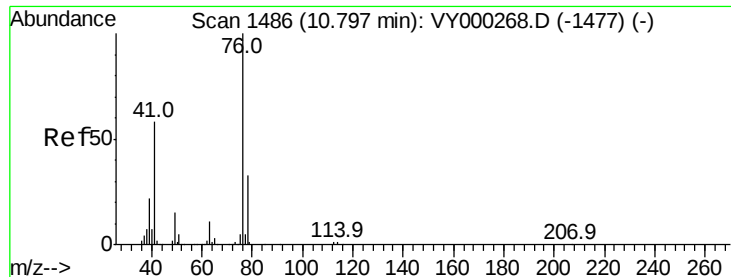
Tot Ion:	97	Resp:	11657
Ion	Ratio	Lower	Upper
97	100		
83	91.7	69.0	103.6
85	64.9	46.2	69.4
99	66.0	51.1	76.7



#56
 Ethyl methacrylate
 Concen: 3.960 ug/l
 RT: 10.51 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Tgt Ion:	69	Resp:	16308
Ion	Ratio	Lower	Upper
69	100		
41	67.0	52.5	78.7
39	36.7	26.7	40.1





#57

1,3-Dichloropropane

Concen: 4.447 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

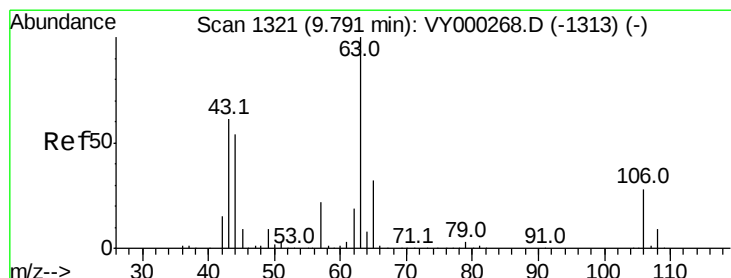
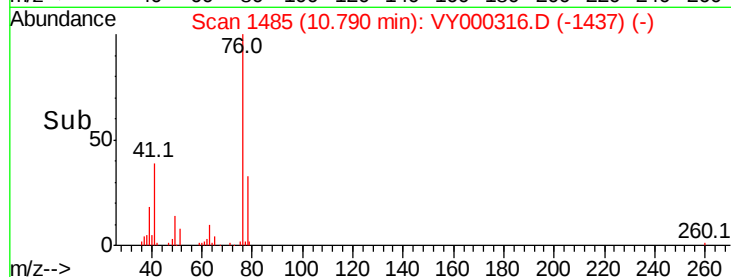
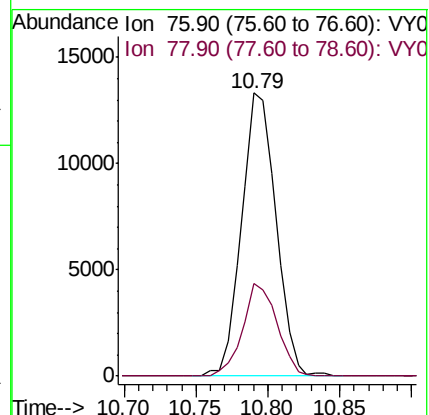
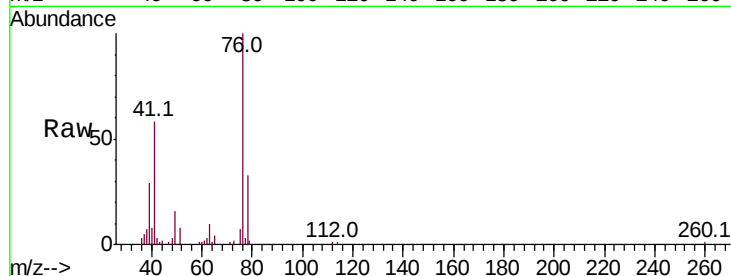
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 76 Resp: 22065

Ion Ratio Lower Upper

76 100

78 32.6 26.2 39.2



#58

2-Chloroethyl Vinyl ether

Concen: 26.298 ug/l

RT: 9.79 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VY000316.D

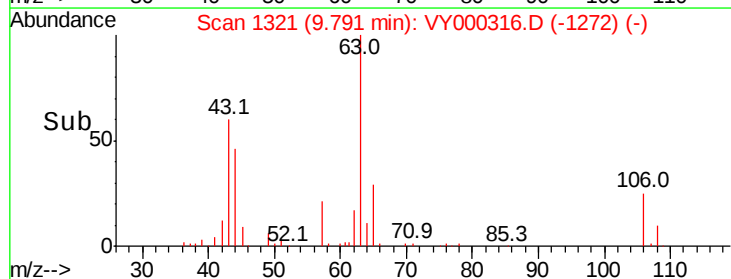
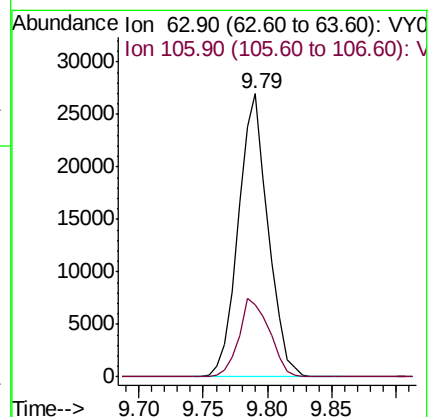
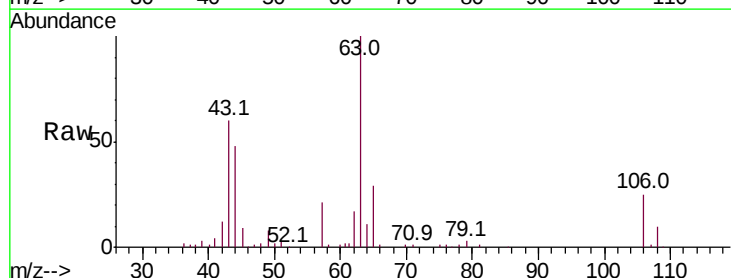
Acq: 15 Oct 2019 13:39

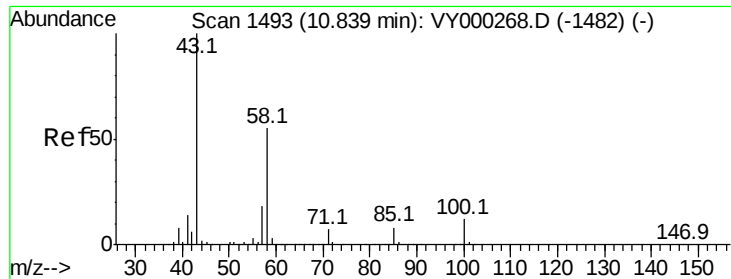
Tgt Ion: 63 Resp: 43197

Ion Ratio Lower Upper

63 100

106 28.4 23.0 34.4

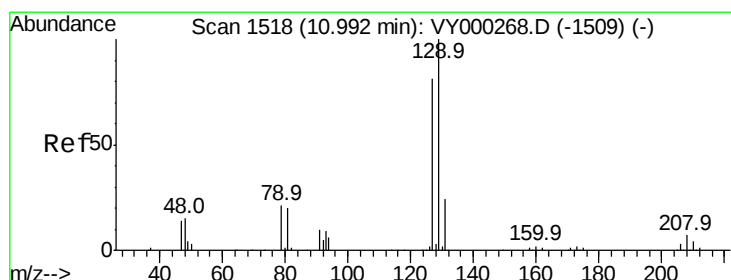
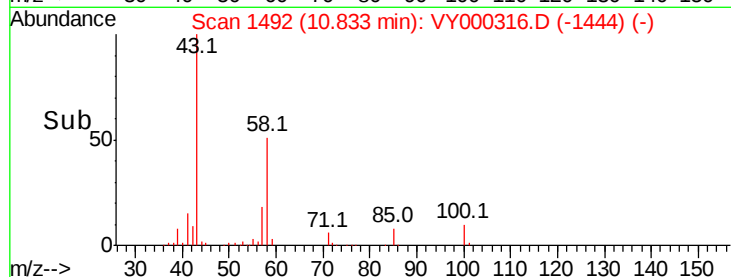
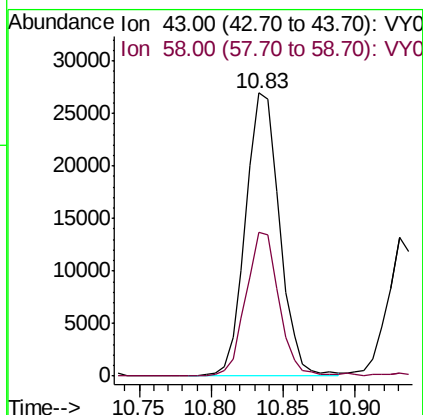
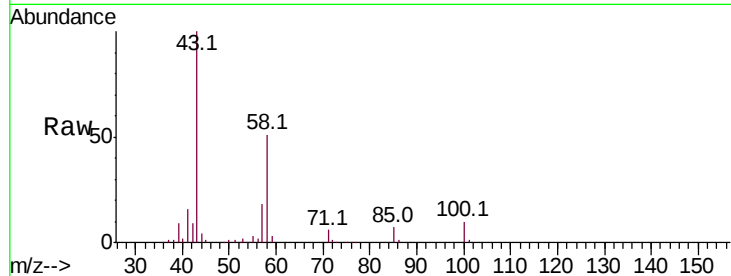




#59
2-Hexanone
Concen: 21.393 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

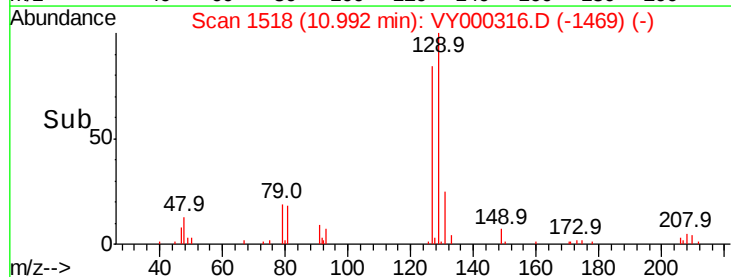
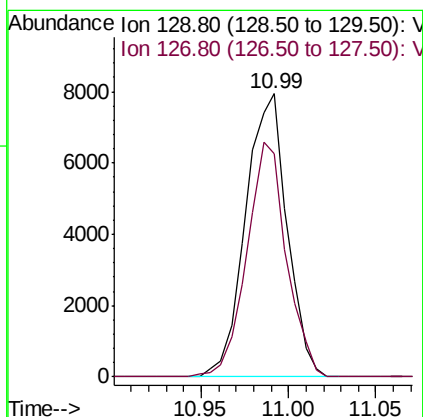
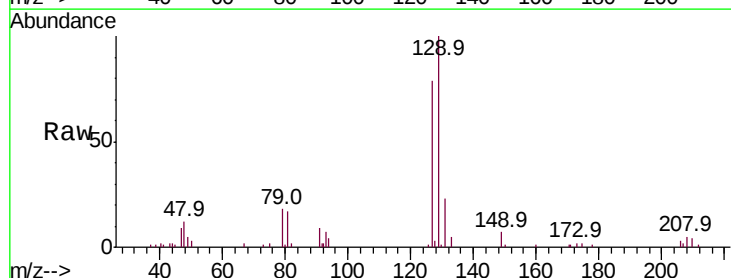
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

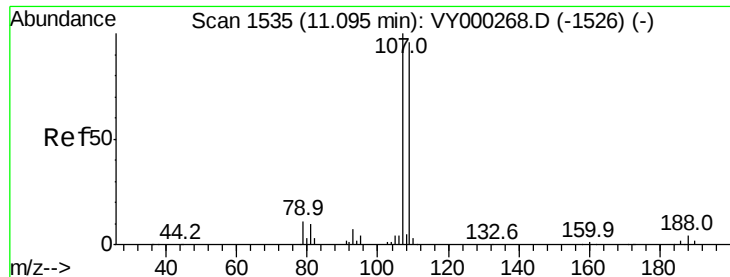
Tot Ion: 43 Resp: 43706
Ion Ratio Lower Upper
43 100
58 49.5 27.7 83.1



#60
Dibromochloromethane
Concen: 4.116 ug/l
RT: 10.99 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 129 Resp: 13182
Ion Ratio Lower Upper
129 100
127 79.2 39.9 119.7

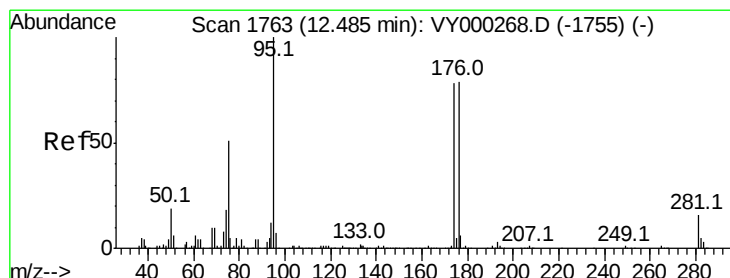
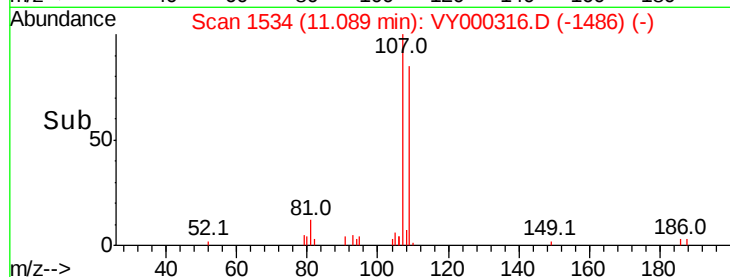
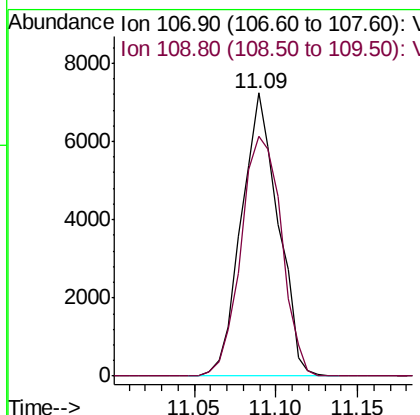
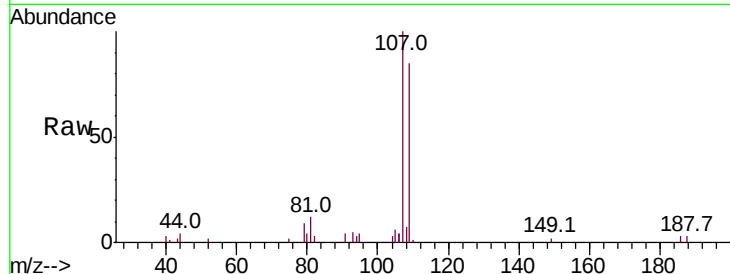




#61
 1,2-Dibromoethane
 Concen: 4.108 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

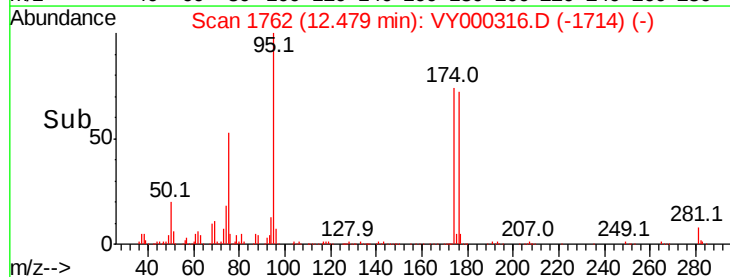
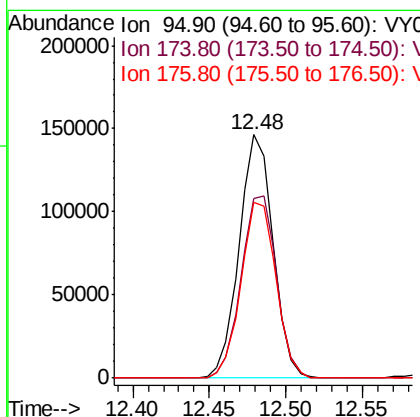
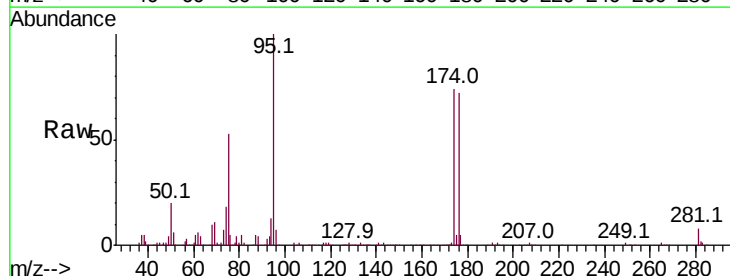
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

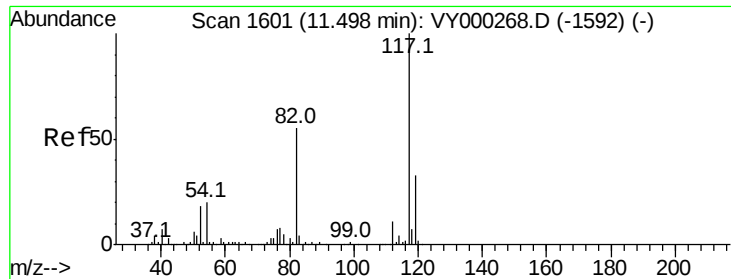
Tot Ion: 107 Resp: 11396
 Ion Ratio Lower Upper
 107 100
 109 93.1 75.1 112.7



#62
 4-Bromofluorobenzene
 Concen: 49.854 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Tgt Ion: 95 Resp: 224993
 Ion Ratio Lower Upper
 95 100
 174 78.3 0.0 159.6
 176 74.8 0.0 153.8

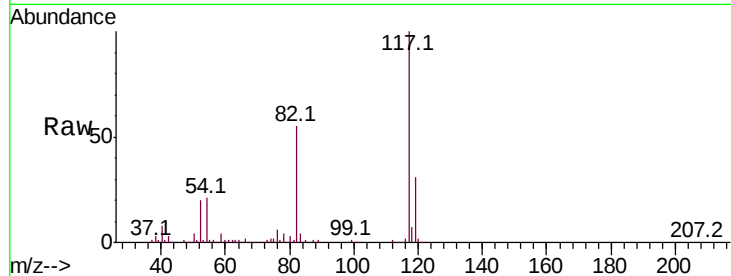




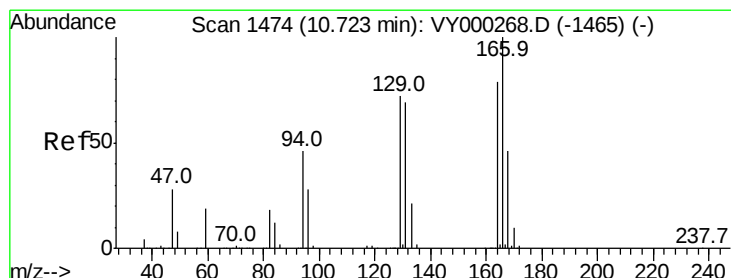
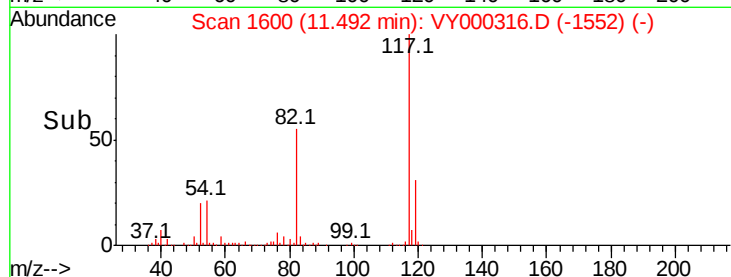
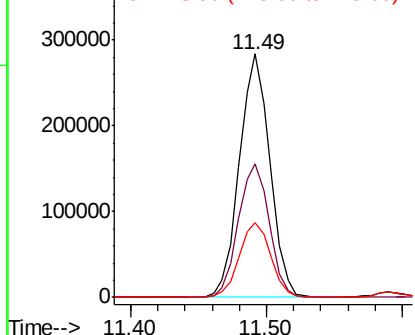
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:117 Resp: 444382
Ion Ratio Lower Upper
117 100
82 55.0 43.7 65.5
119 30.7 26.6 39.8

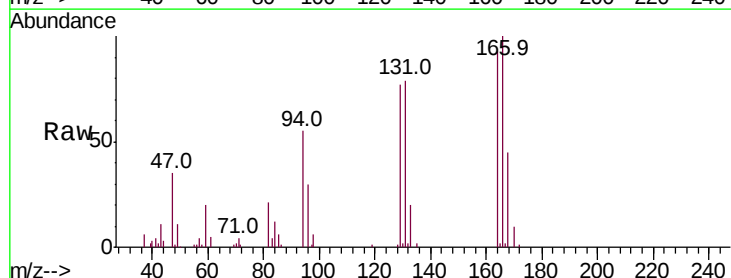


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

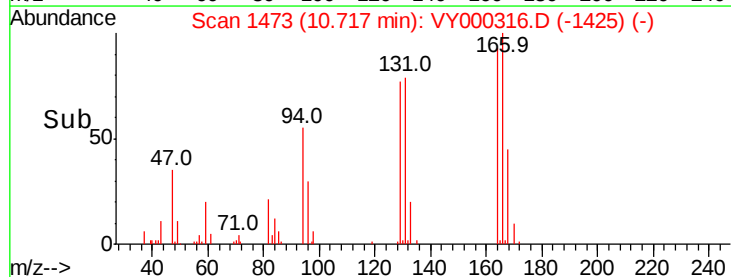
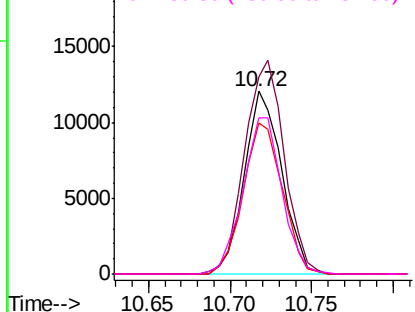


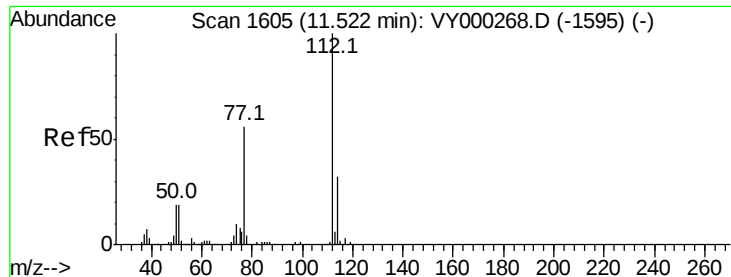
#64
Tetrachloroethene
Concen: 4.577 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion:164 Resp: 19365
Ion Ratio Lower Upper
164 100
166 107.5 100.6 151.0
129 82.5 72.8 109.2
131 85.1 69.4 104.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

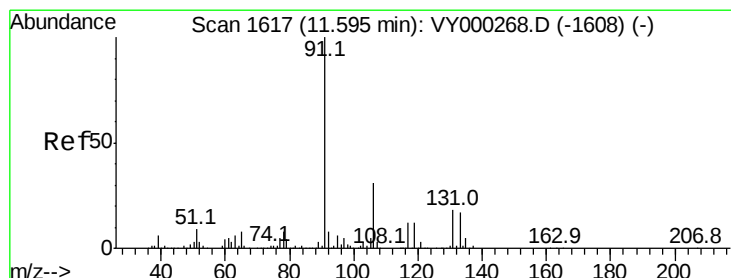
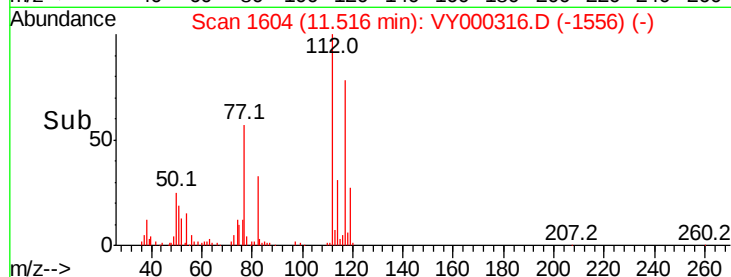
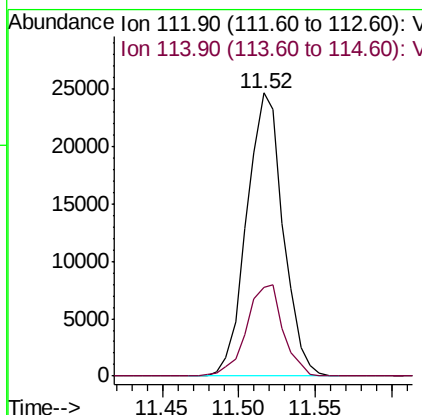
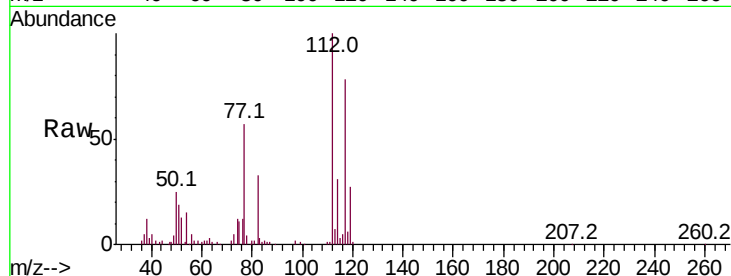




#65
Chlorobenzene
Concen: 4.353 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

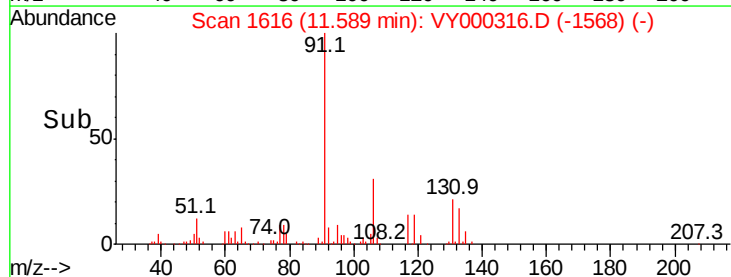
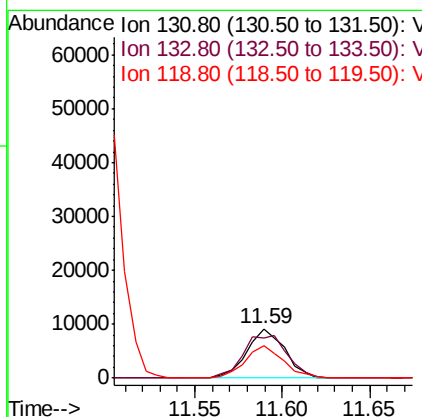
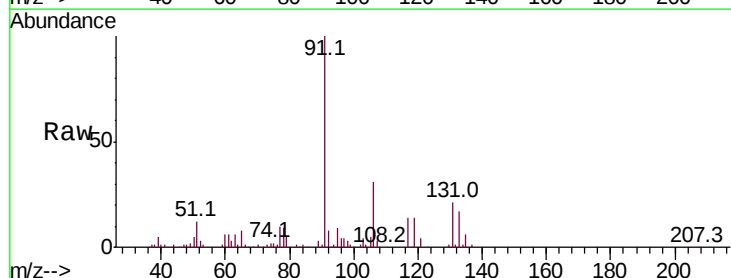
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

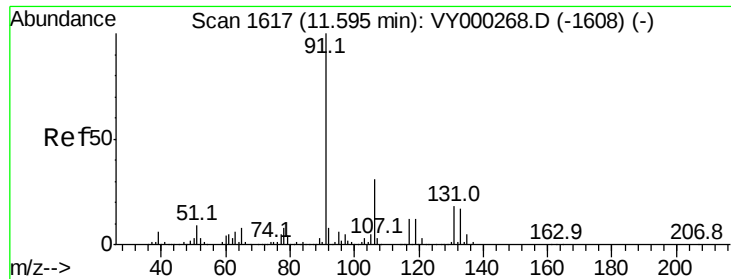
Tot Ion:112 Resp: 40827
Ion Ratio Lower Upper
112 100
114 31.3 25.7 38.5



#66
1,1,1,2-Tetrachloroethane
Concen: 4.245 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion:131 Resp: 13985
Ion Ratio Lower Upper
131 100
133 102.0 47.2 141.6
119 66.6 32.6 98.0





#67

Ethyl Benzene

Concen: 4.254 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

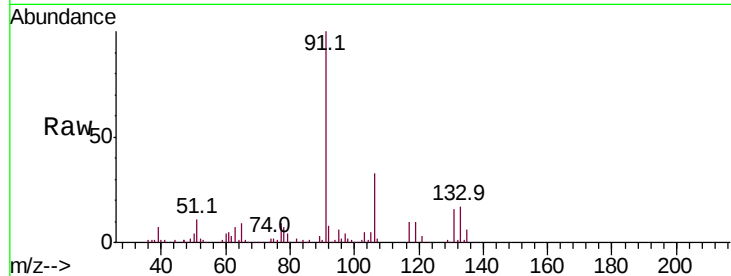
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 73960

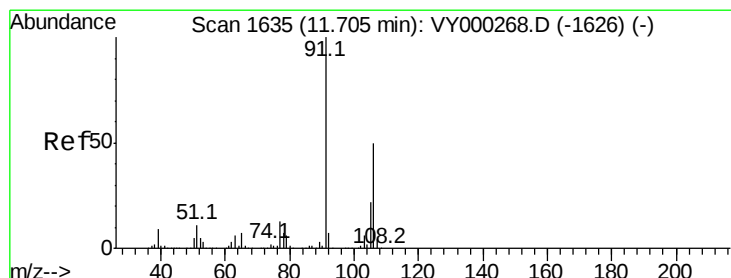
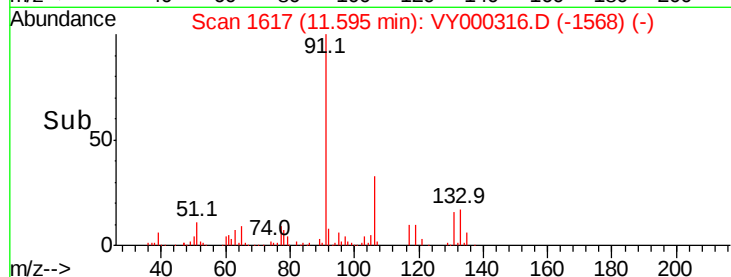
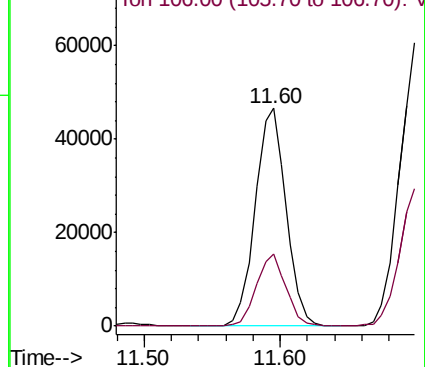
Ion Ratio Lower Upper

91 100

106 33.0 25.0 37.6



Abundance Ion 91.00 (90.70 to 91.70): VY000316.D (-1568) (-)



#68

m/p-Xylenes

Concen: 8.284 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. -0.01 min

Lab File: VY000316.D

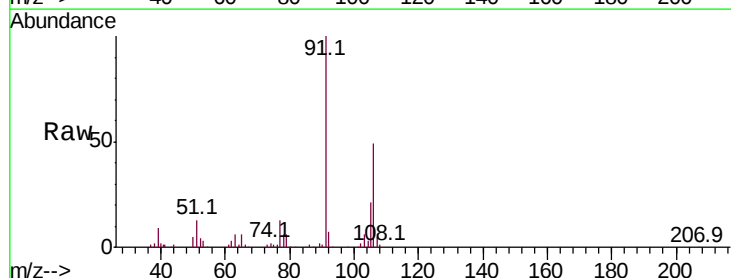
Acq: 15 Oct 2019 13:39

Tgt Ion: 106 Resp: 55054

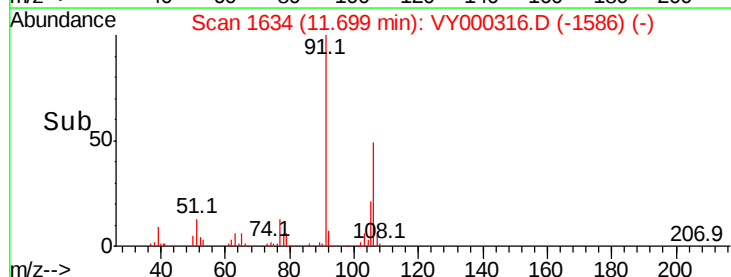
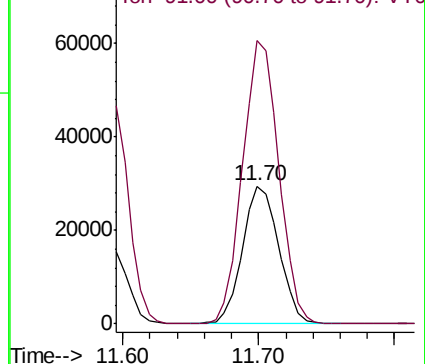
Ion Ratio Lower Upper

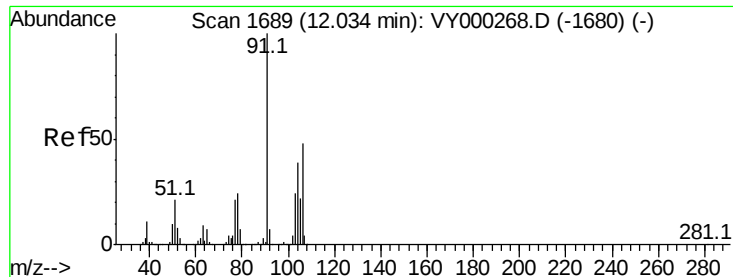
106 100

91 205.4 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): VY000316.D (-1586) (-)

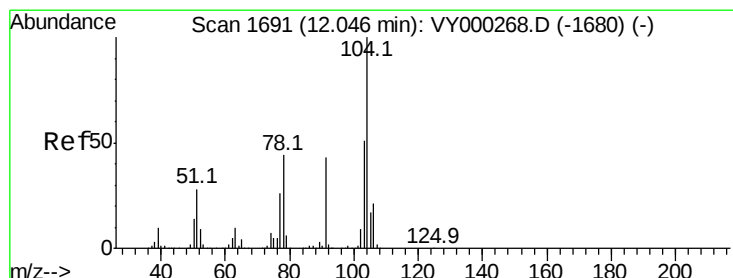
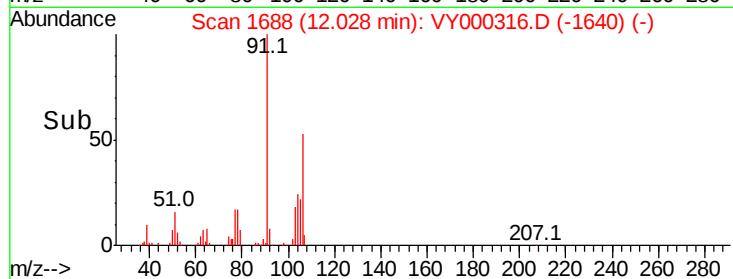
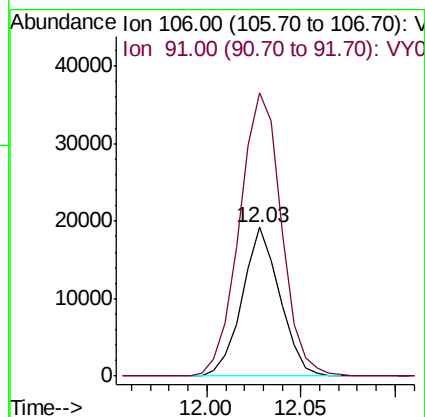
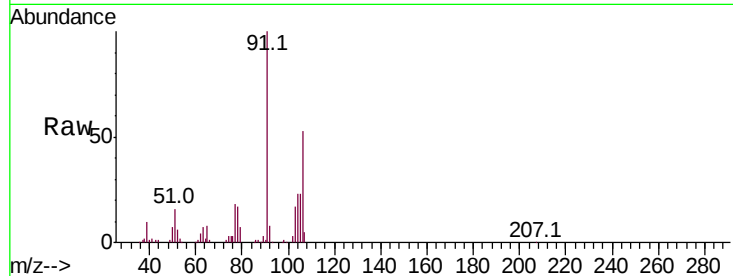




#69
o-Xylene
Concen: 4.179 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

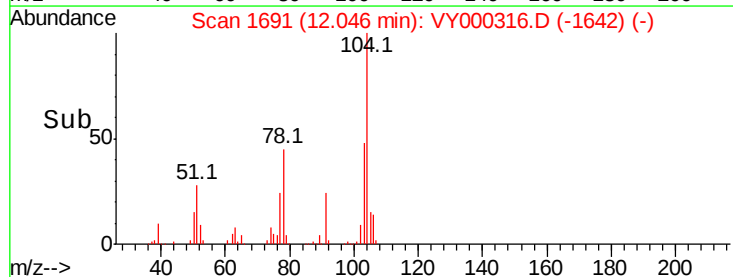
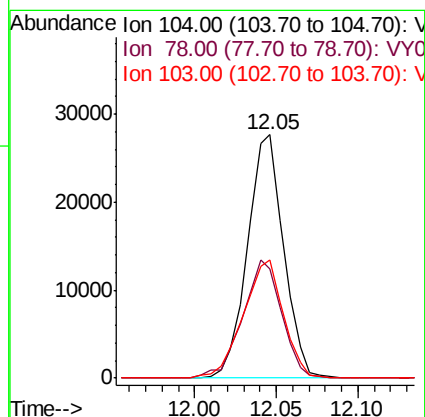
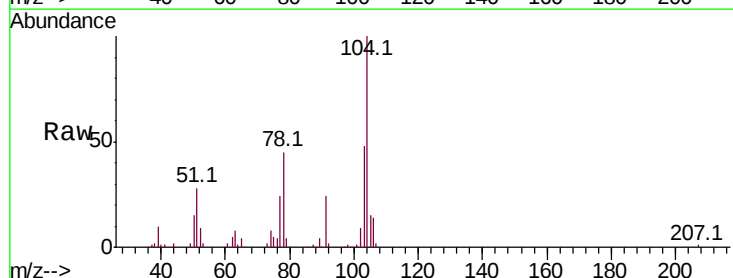
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

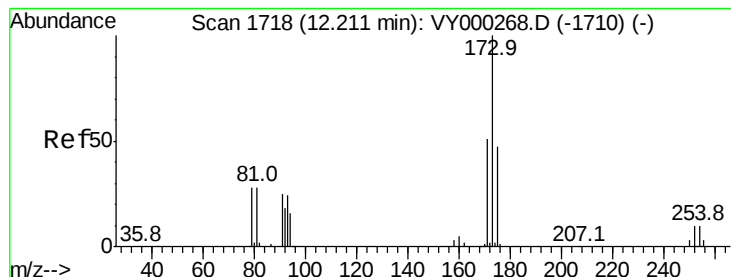
Tot Ion:106 Resp: 26494
Ion Ratio Lower Upper
106 100
91 212.8 104.7 313.9



#70
Styrene
Concen: 4.005 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion:104 Resp: 42821
Ion Ratio Lower Upper
104 100
78 52.3 39.0 58.6
103 53.7 43.1 64.7





#71

Bromoform

Concen: 4.125 ug/l

RT: 12.21 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

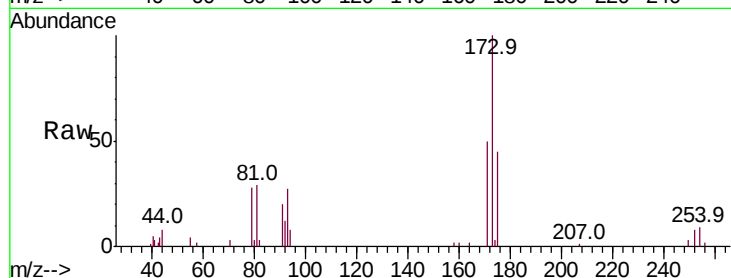
Tot Ion:173 Resp: 7812

Ion Ratio Lower Upper

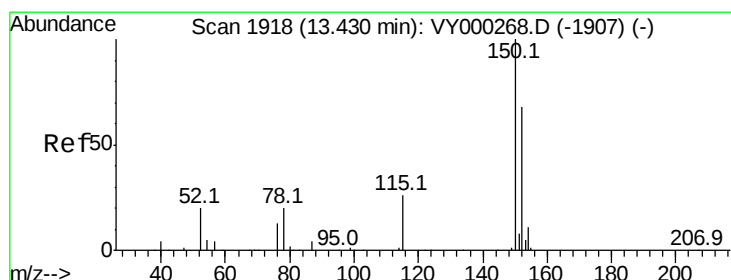
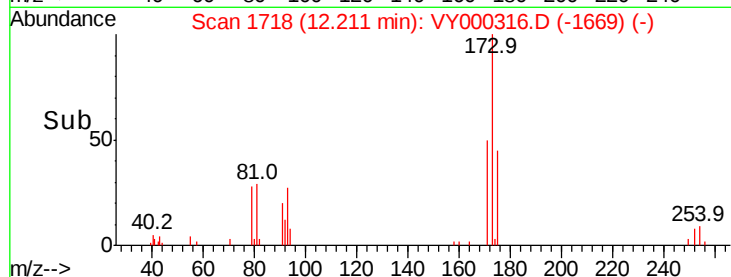
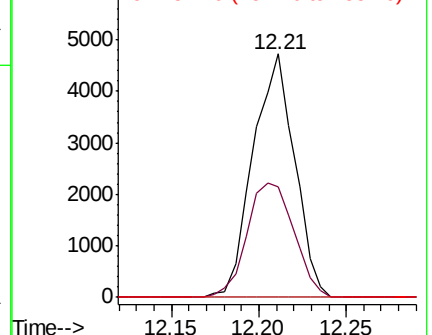
173 100

175 53.0 24.6 73.6

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

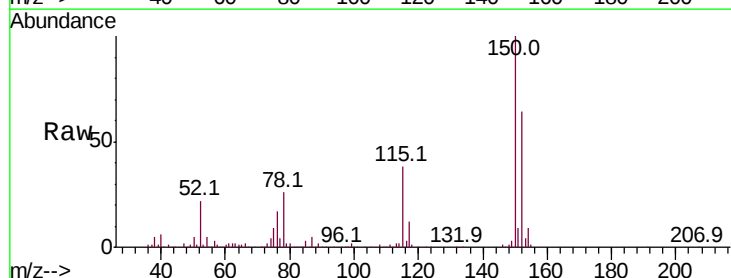
Tgt Ion:152 Resp: 210512

Ion Ratio Lower Upper

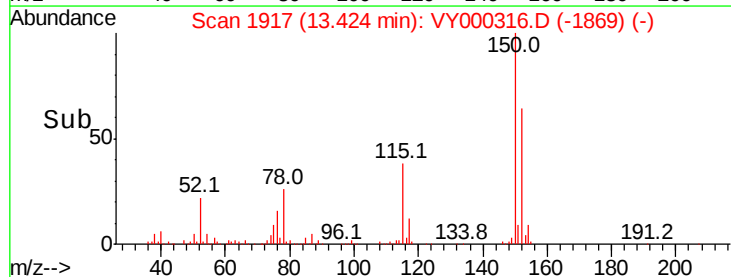
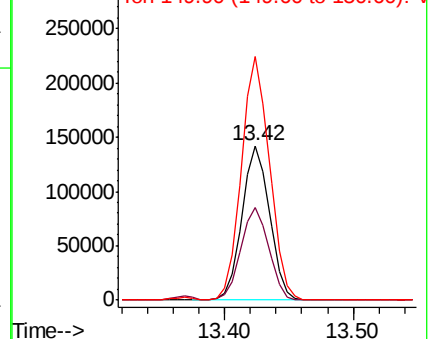
152 100

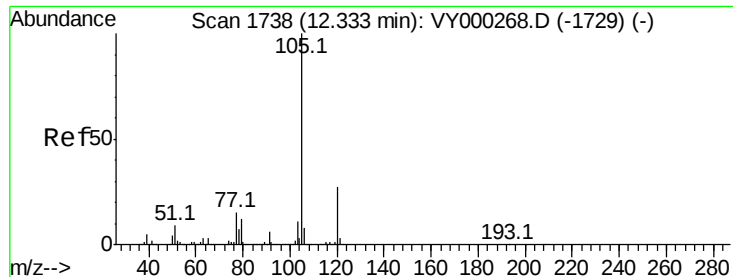
115 60.8 29.3 88.0

150 160.6 0.0 348.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 4.276 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

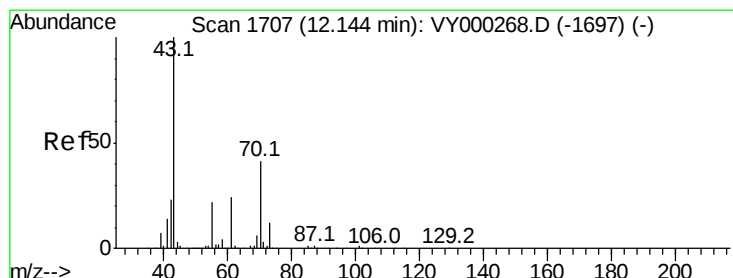
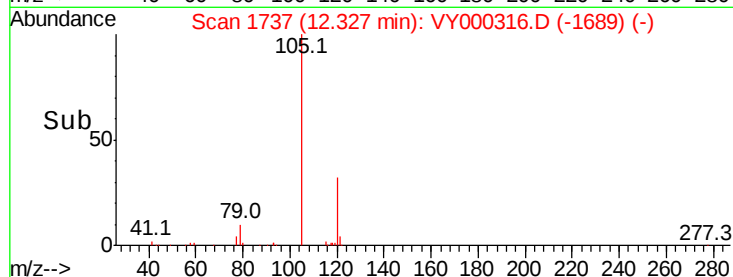
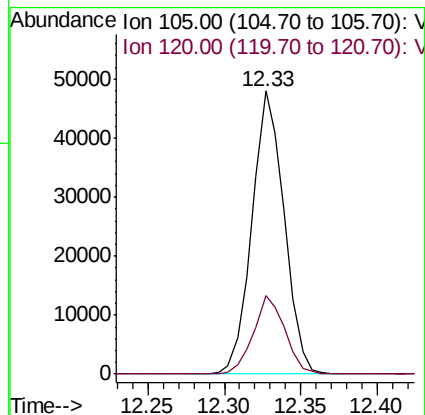
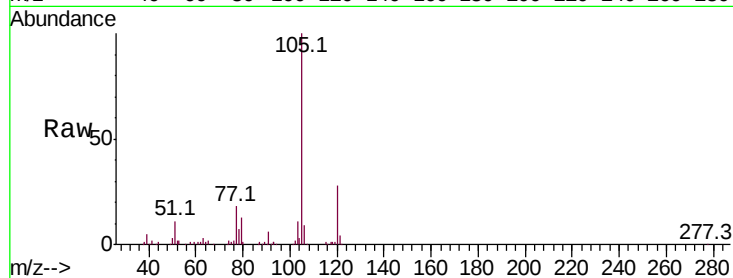
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:105 Resp: 70183

Ion Ratio Lower Upper

105 100

120 27.0 13.4 40.2



#74

N-ethyl acetate

Concen: 4.516 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Tgt Ion: 43 Resp: 18198

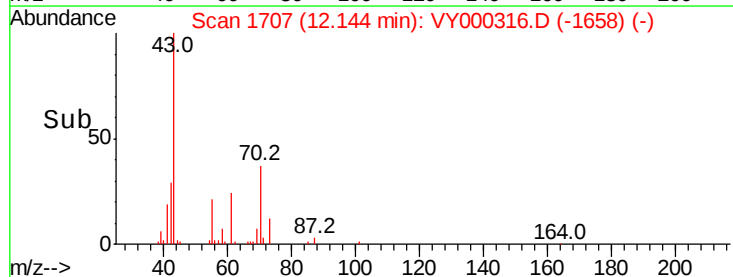
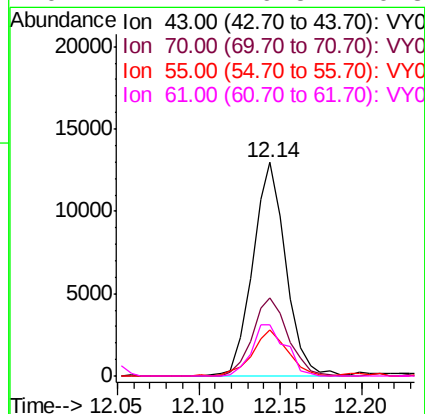
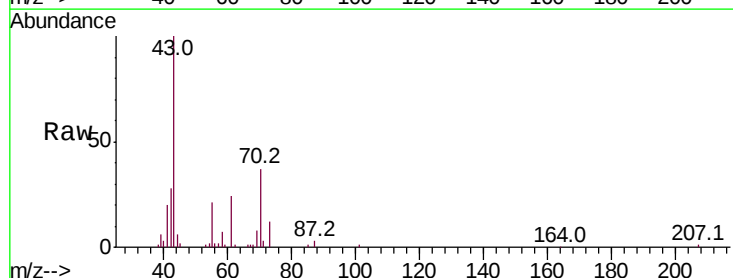
Ion Ratio Lower Upper

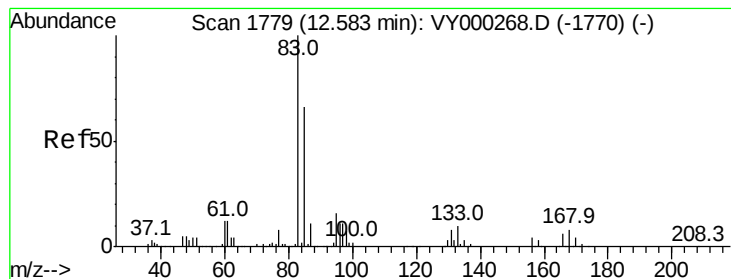
43 100

70 39.3 32.9 49.3

55 23.1 17.8 26.6

61 24.7 19.5 29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 4.307 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

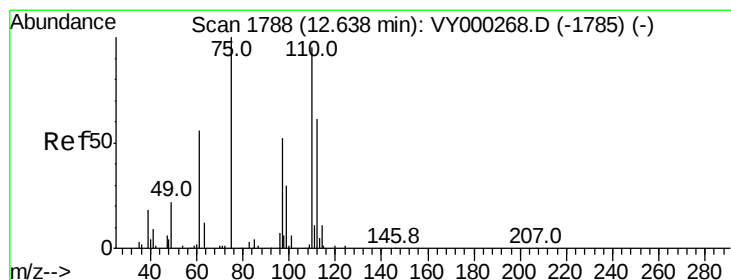
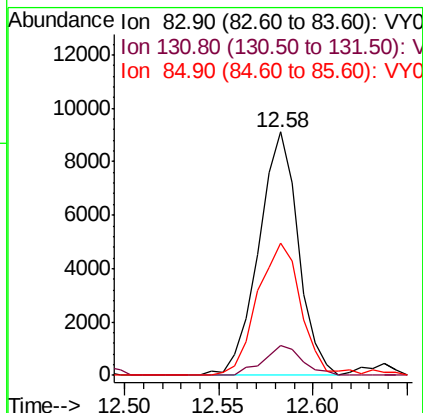
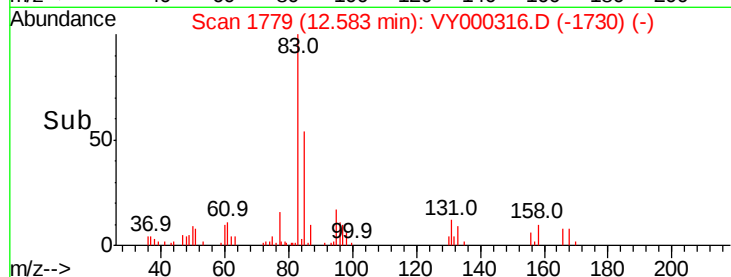
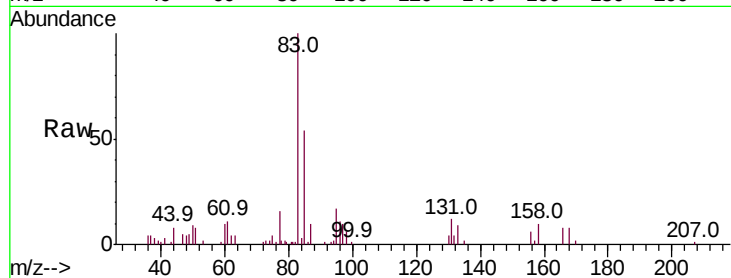
Tot Ion: 83 Resp: 13273

Ion Ratio Lower Upper

83 100

131 11.9 5.3 16.1

85 60.1 32.9 98.7



#76

1,2,3-Trichloropropane

Concen: 7.490 ug/l

RT: 12.64 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VY000316.D

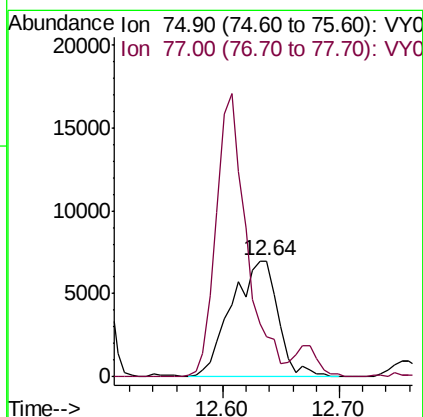
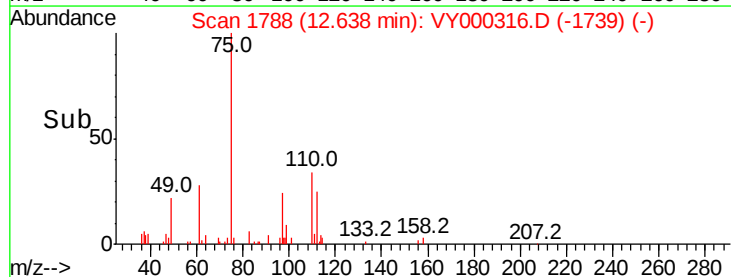
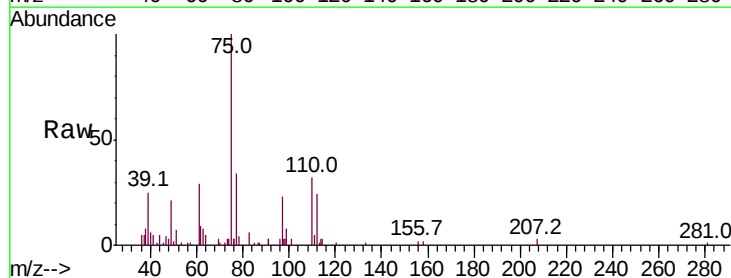
Acq: 15 Oct 2019 13:39

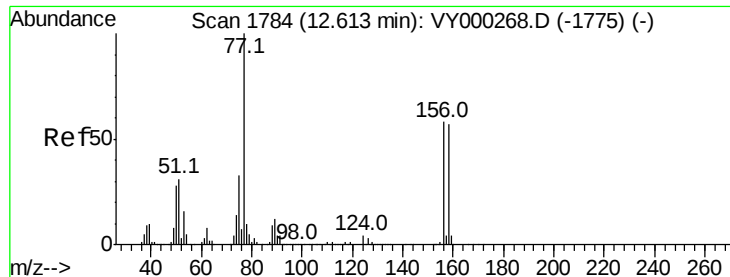
Tgt Ion: 75 Resp: 19389

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 4.549 ug/l

RT: 12.61 min Scan# 1783

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

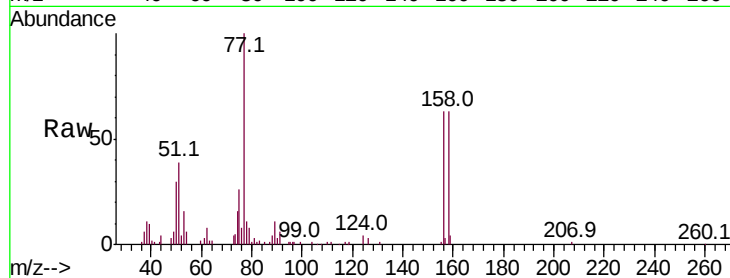
Tot Ion:156 Resp: 16615

Ion Ratio Lower Upper

156 100

77 187.1 101.0 302.9

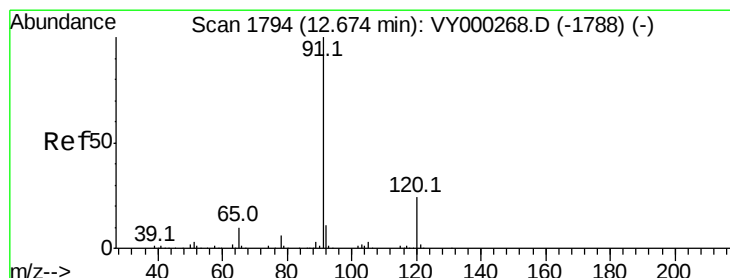
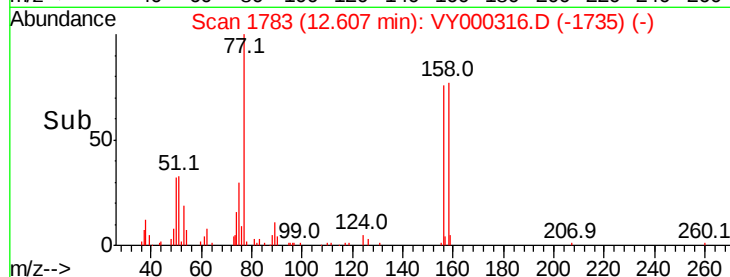
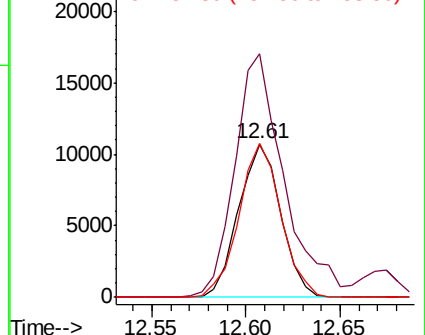
158 100.2 49.7 149.1



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.278 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. -0.01 min

Lab File: VY000316.D

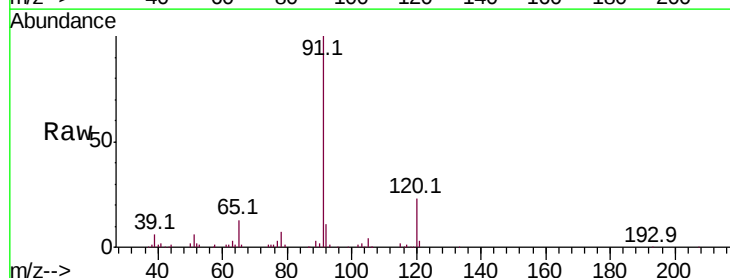
Acq: 15 Oct 2019 13:39

Tgt Ion: 91 Resp: 84301

Ion Ratio Lower Upper

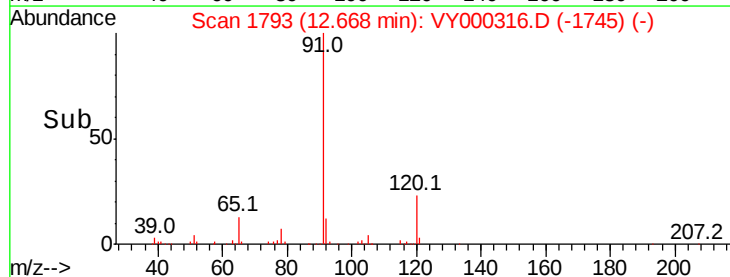
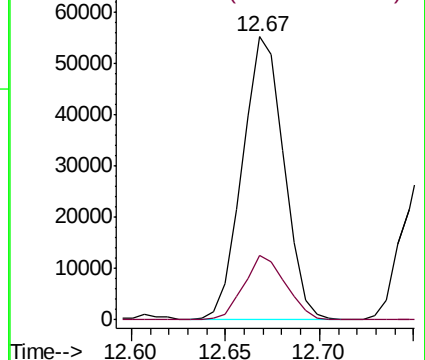
91 100

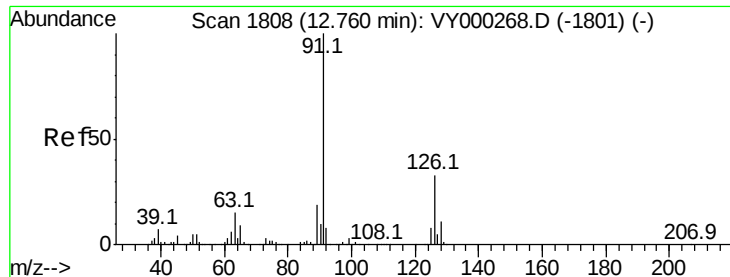
120 22.8 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.397 ug/l

RT: 12.75 min Scan# 1807

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

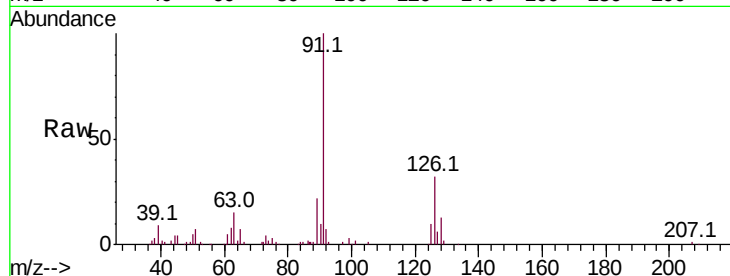
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 47861

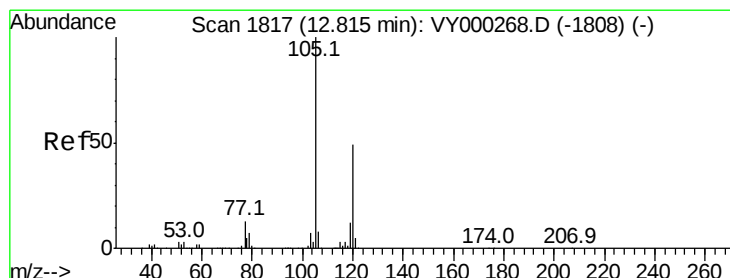
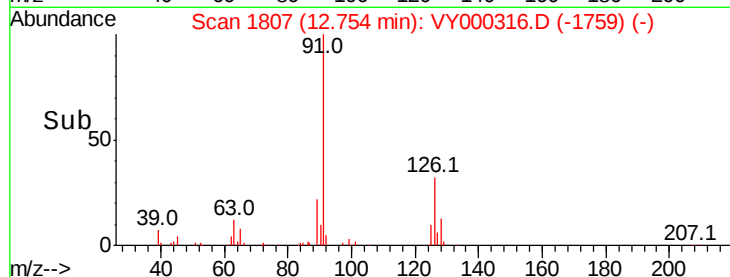
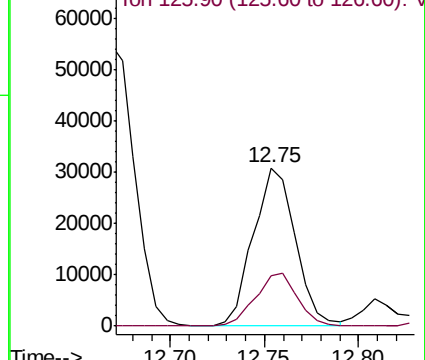
Ion Ratio Lower Upper

91 100

126 33.3 17.1 51.3



Abundance Ion 91.00 (90.70 to 91.70): VY000268.D (-1801) (-)



#80

1,3,5-Trimethylbenzene

Concen: 4.287 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.01 min

Lab File: VY000316.D

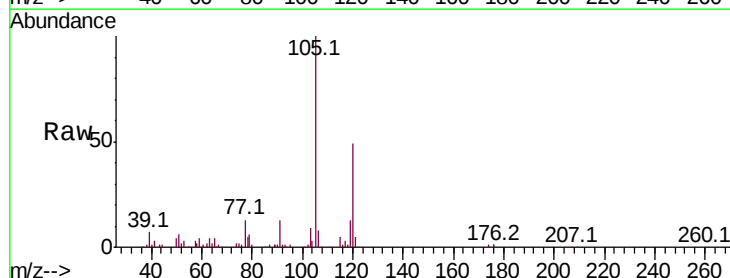
Acq: 15 Oct 2019 13:39

Tgt Ion: 105 Resp: 59002

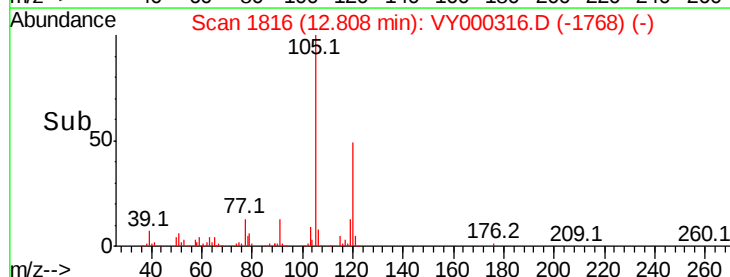
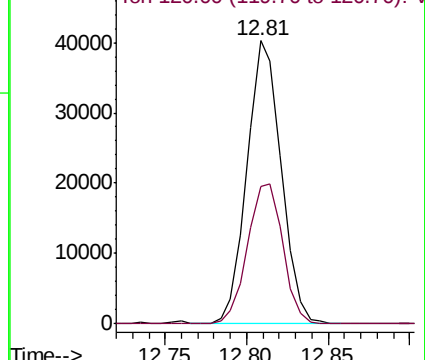
Ion Ratio Lower Upper

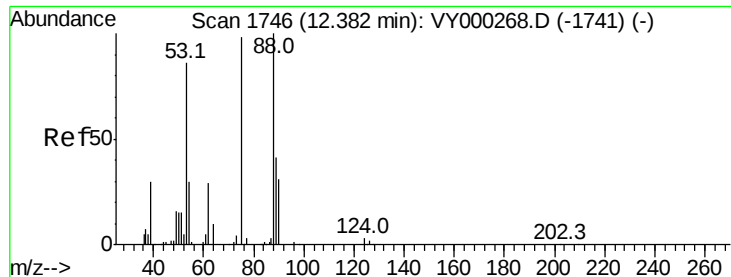
105 100

120 50.8 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): VY000268.D (-1808) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 4.164 ug/l

RT: 12.38 min Scan# 1746

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

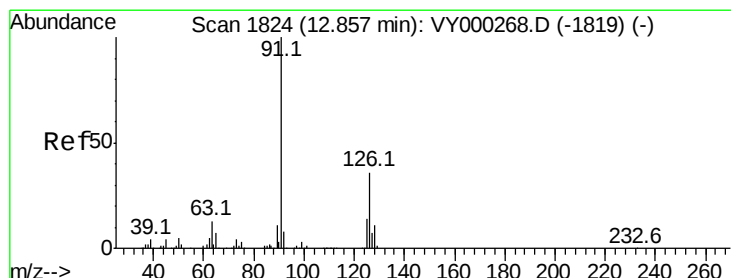
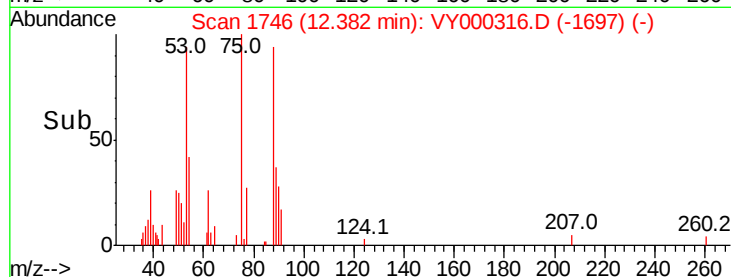
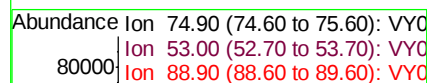
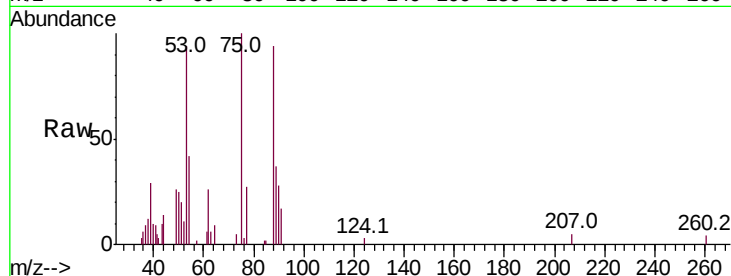
Tot Ion: 75 Resp: 4927

Ion	Ratio	Lower	Upper
75	100		
53	86.2	71.3	106.9
89	40.4	35.1	52.7

75 100

53 86.2 71.3 106.9

89 40.4 35.1 52.7



#82

4-Chlorotoluene

Concen: 4.355 ug/l

RT: 12.85 min Scan# 1823

Delta R.T. -0.01 min

Lab File: VY000316.D

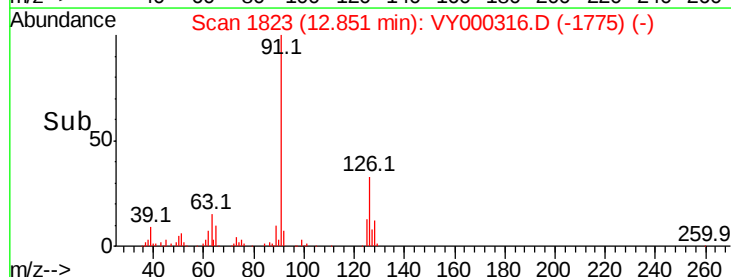
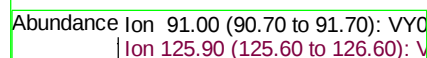
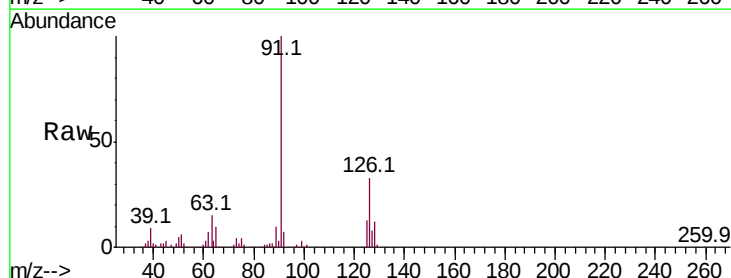
Acq: 15 Oct 2019 13:39

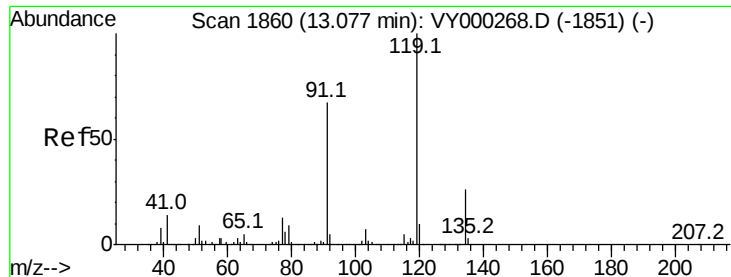
Tgt Ion: 91 Resp: 50104

Ion	Ratio	Lower	Upper
91	100		
126	36.3	17.2	51.5

91 100

126 36.3 17.2 51.5





#83

tert-Butylbenzene

Concen: 4.356 ug/l

RT: 13.07 min Scan# 1859

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

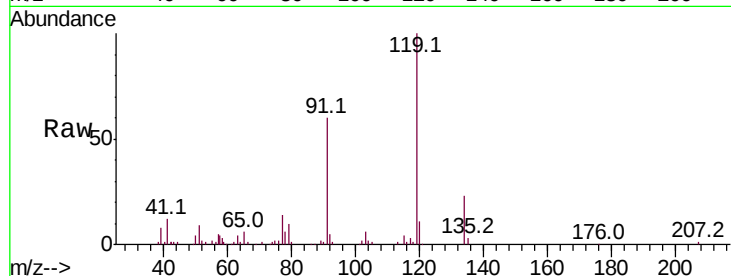
Tot Ion:119 Resp: 50770

Ion Ratio Lower Upper

119 100

91 64.0 32.9 98.7

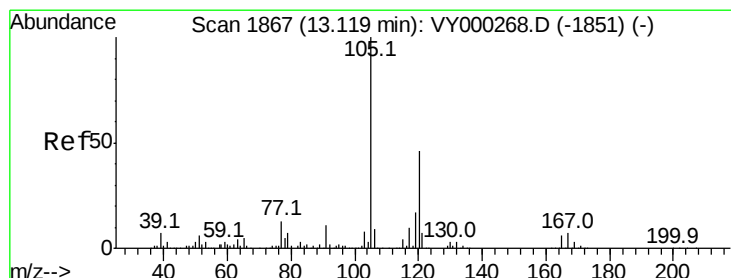
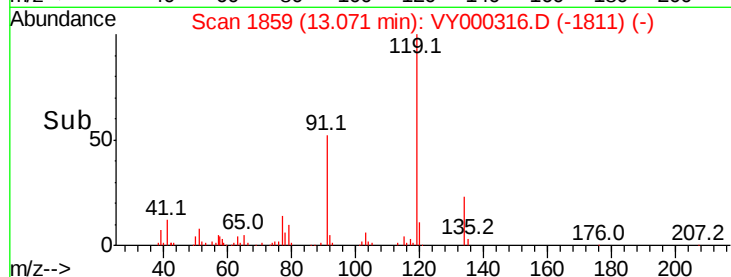
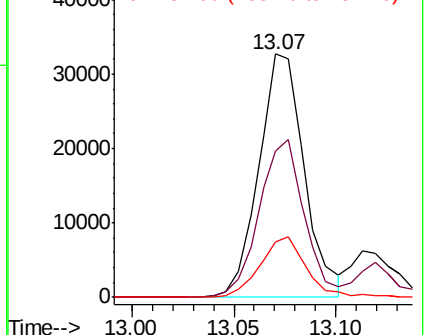
134 25.0 13.3 39.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 4.239 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY000316.D

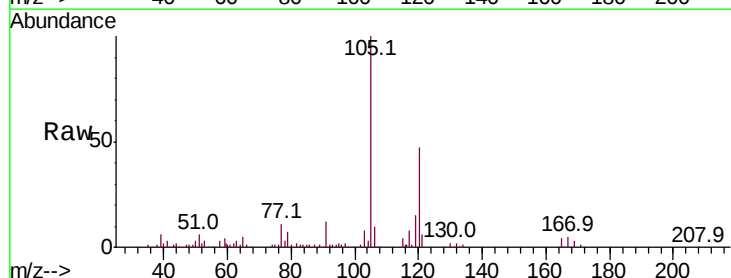
Acq: 15 Oct 2019 13:39

Tgt Ion:105 Resp: 57584

Ion Ratio Lower Upper

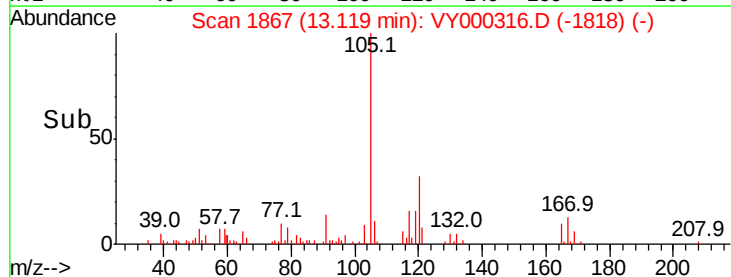
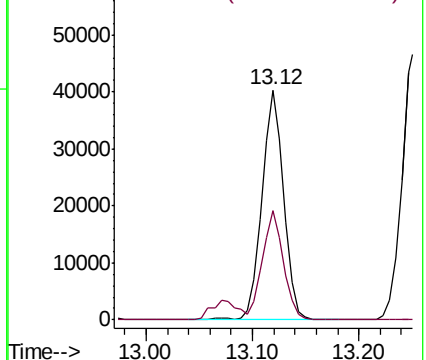
105 100

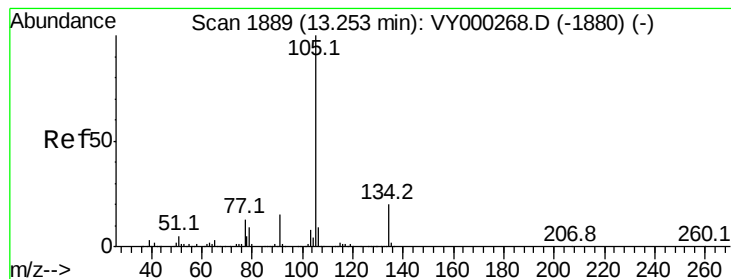
120 45.9 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 4.221 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

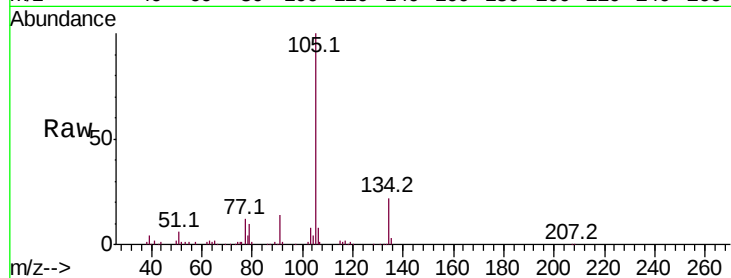
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:105 Resp: 71173

Ion Ratio Lower Upper

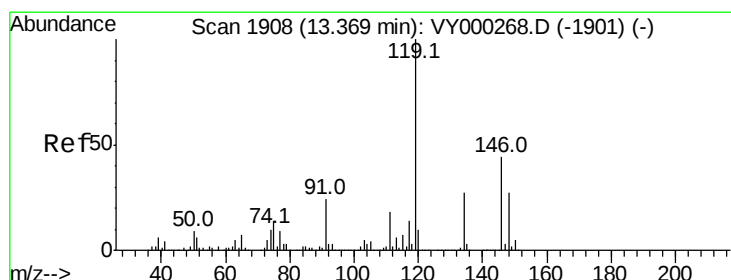
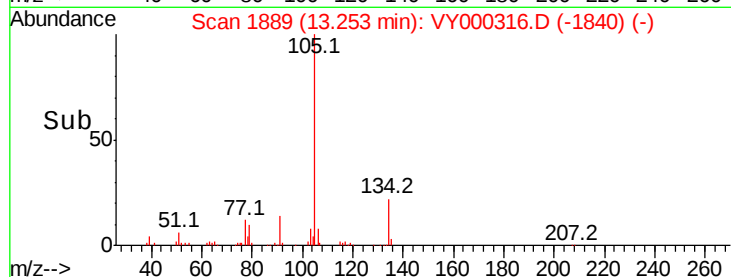
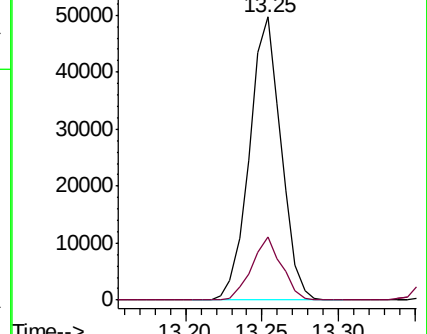
105 100

134 21.0 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.306 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

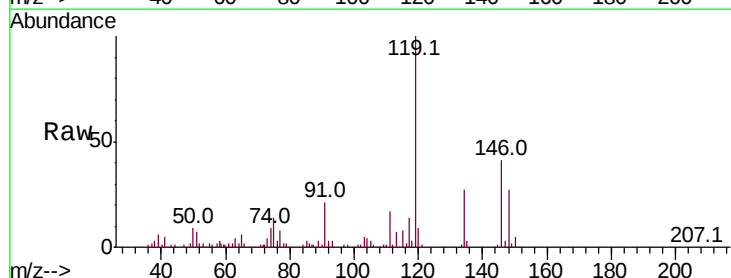
Tgt Ion:119 Resp: 63293

Ion Ratio Lower Upper

119 100

134 26.7 13.6 40.8

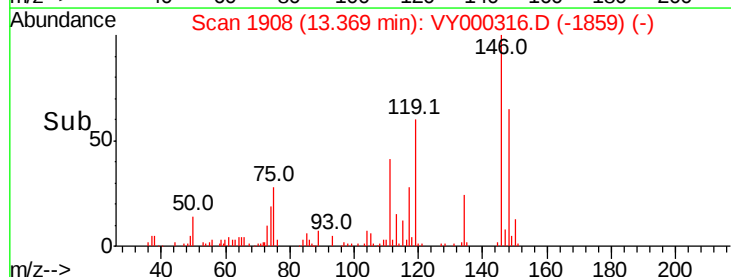
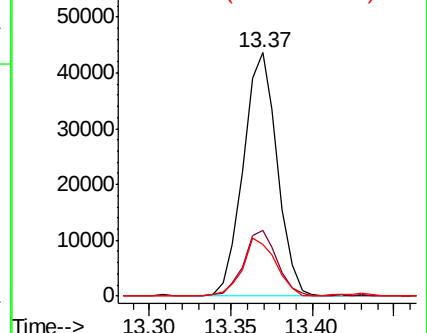
91 23.4 12.0 36.1

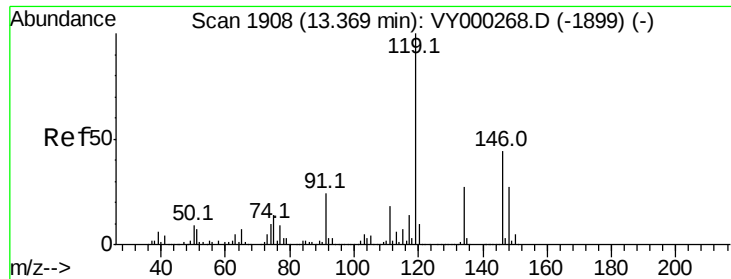


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0

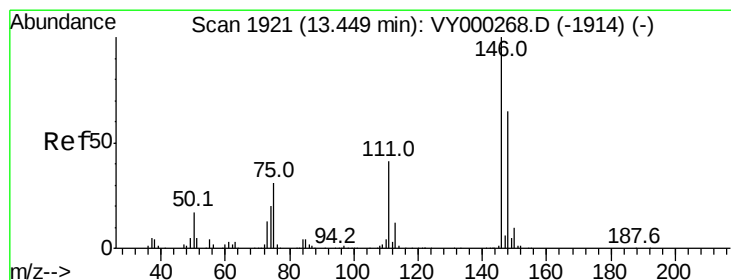
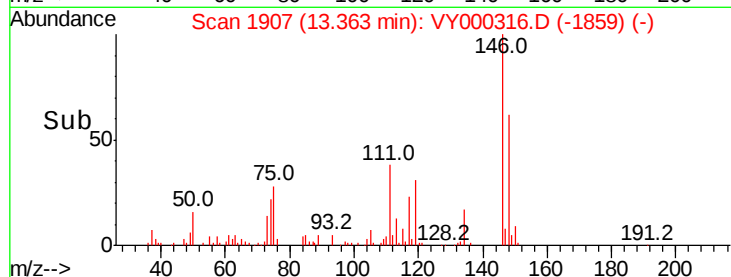
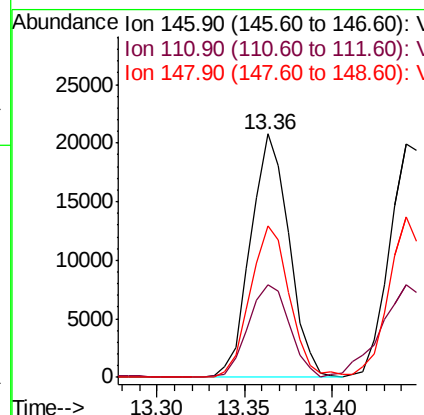
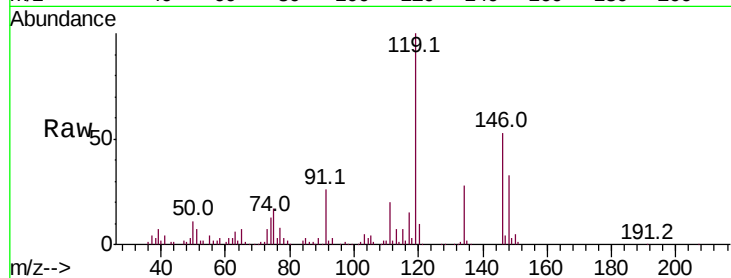




#87
 1,3-Dichlorobenzene
 Concen: 4.422 ug/l
 RT: 13.36 min Scan# 1907
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

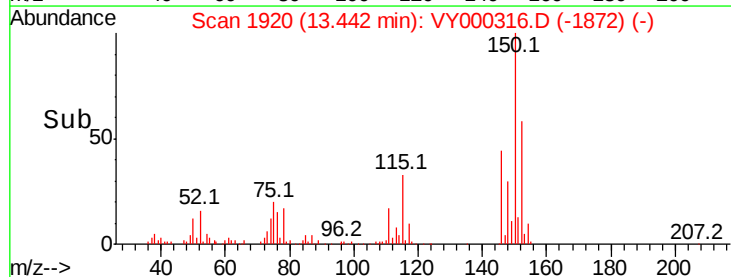
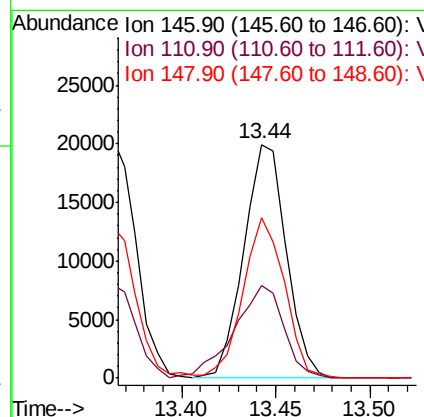
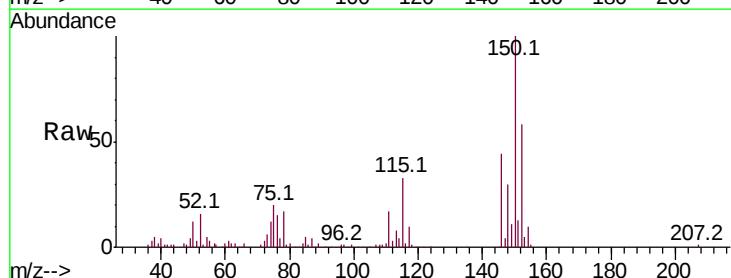
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

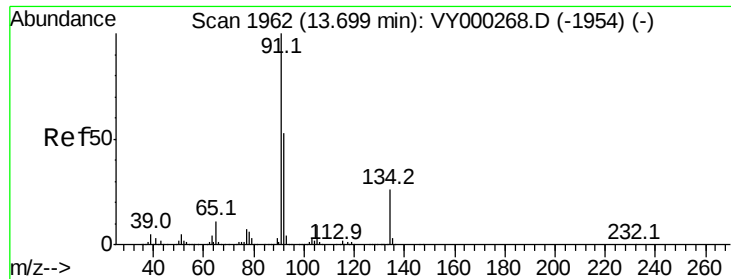
Tot Ion:146 Resp: 31826
 Ion Ratio Lower Upper
 146 100
 111 40.9 20.6 61.8
 148 63.3 31.9 95.5



#88
 1,4-Dichlorobenzene
 Concen: 4.340 ug/l
 RT: 13.44 min Scan# 1920
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Tgt Ion:146 Resp: 31219
 Ion Ratio Lower Upper
 146 100
 111 46.3 20.1 60.2
 148 66.6 32.4 97.2

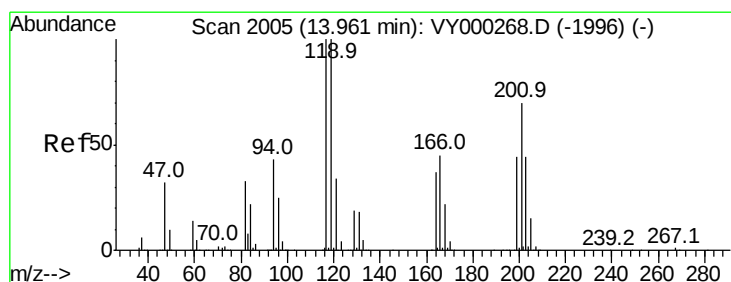
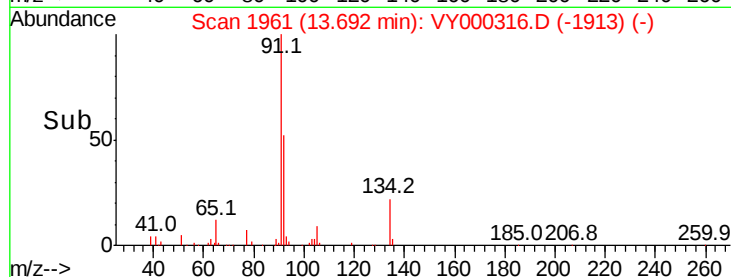
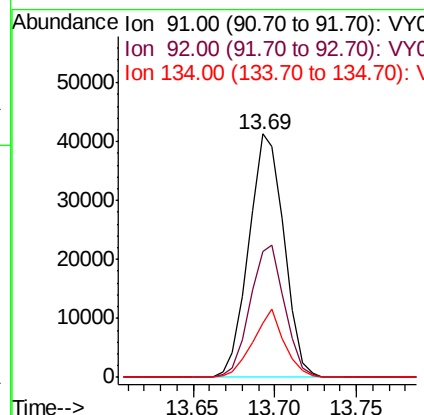
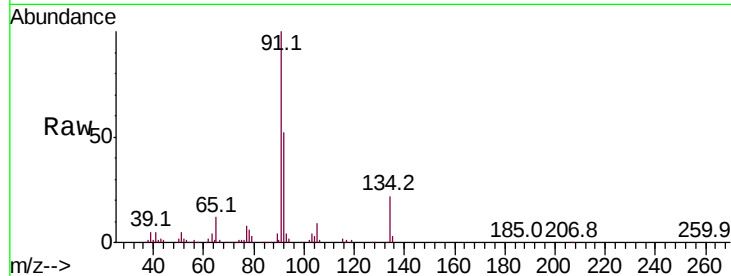




#89
n-Butylbenzene
Concen: 4.271 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

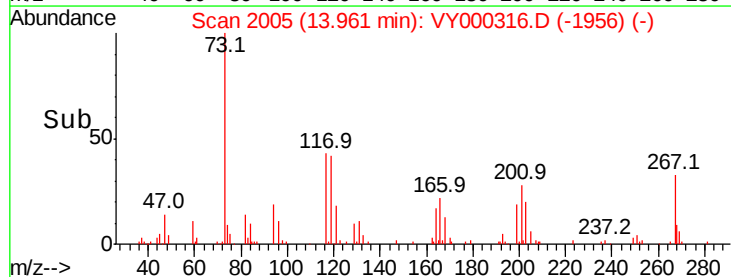
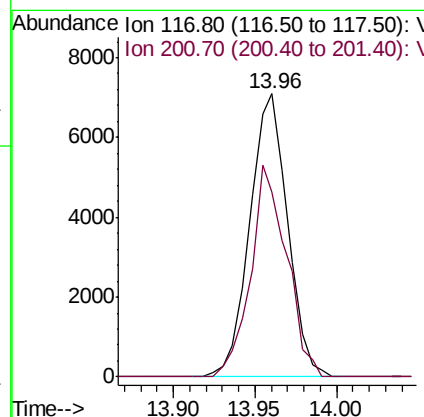
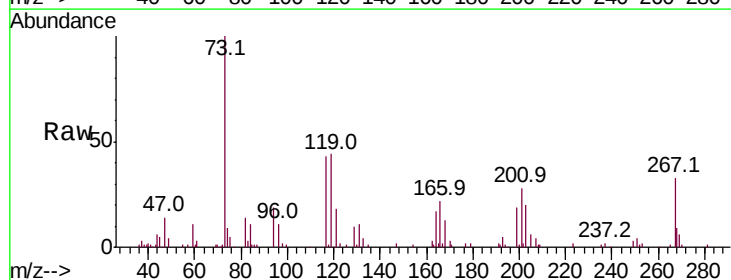
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

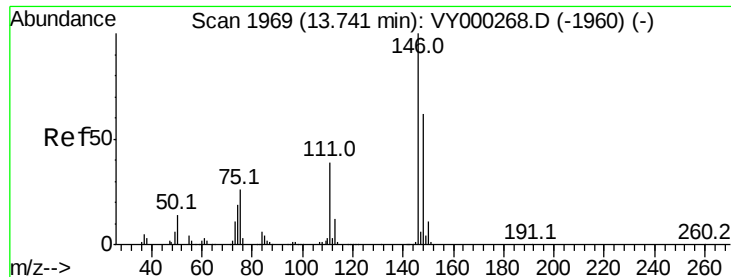
Tot Ion: 91 Resp: 62039
Ion Ratio Lower Upper
91 100
92 52.9 26.7 80.1
134 24.9 13.0 38.9



#90
Hexachloroethane
Concen: 4.189 ug/l
RT: 13.96 min Scan# 2005
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 117 Resp: 11402
Ion Ratio Lower Upper
117 100
201 71.1 36.3 108.7

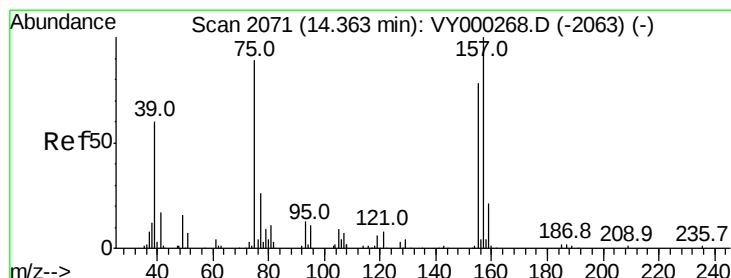
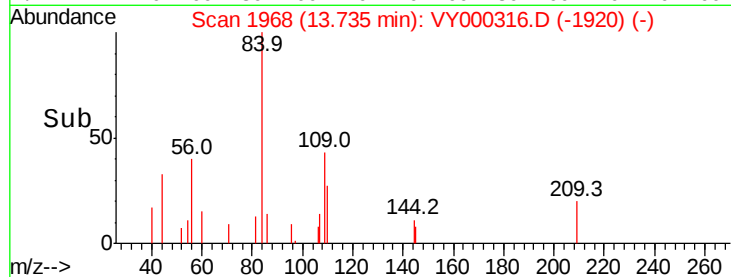
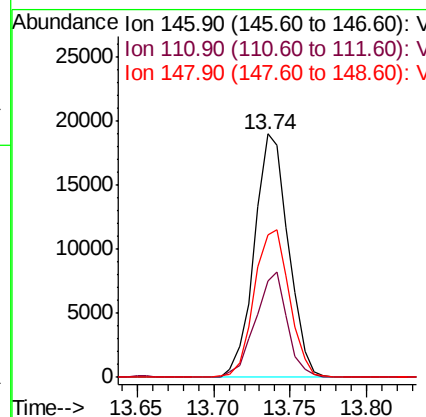
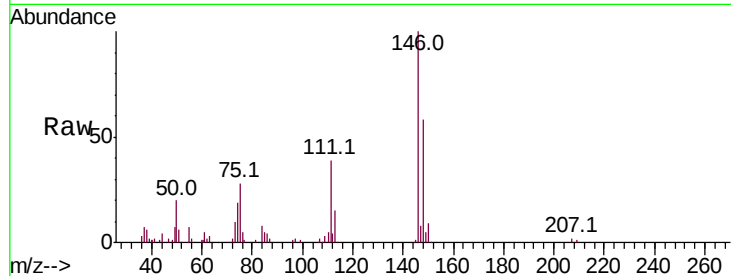




#91
 1,2-Dichlorobenzene
 Concen: 4.506 ug/l
 RT: 13.74 min Scan# 1968
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

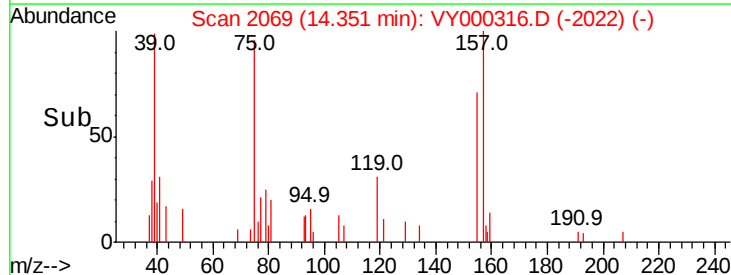
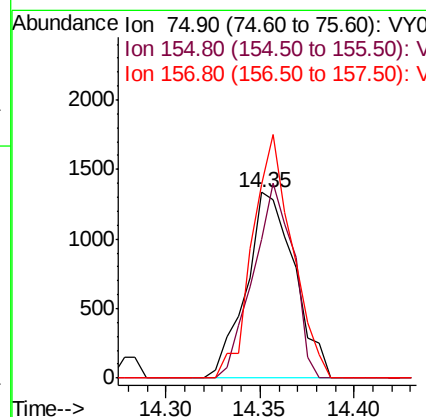
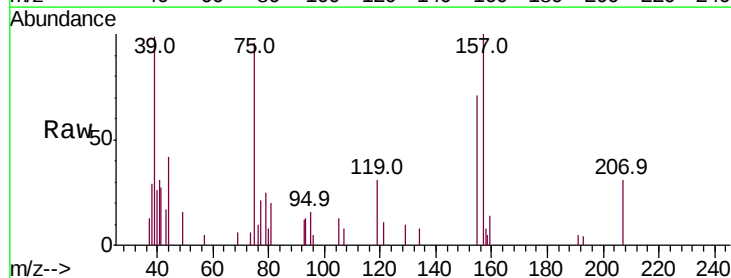
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

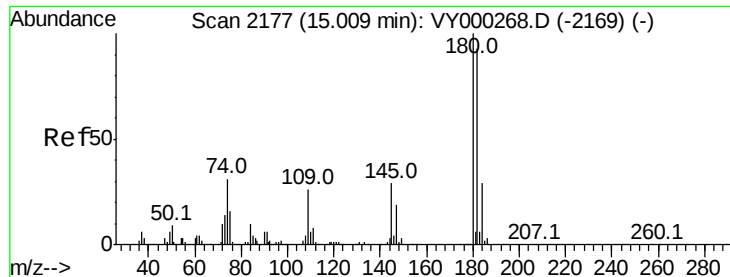
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.5	61.5
148	62.5	31.6	95.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.051 ug/l
 RT: 14.35 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.1	45.8	137.3
157	108.4	55.6	166.9

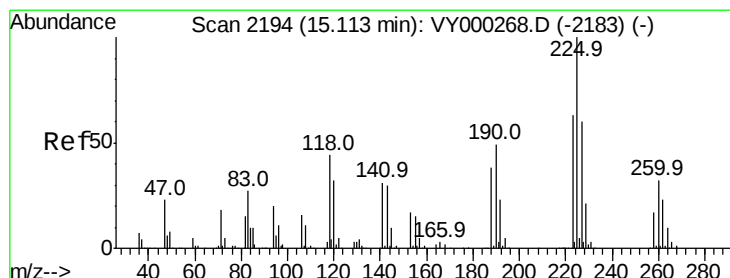
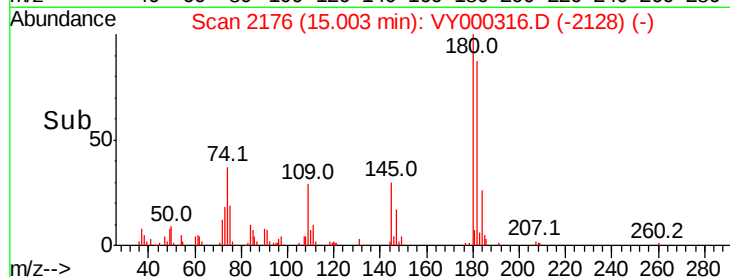
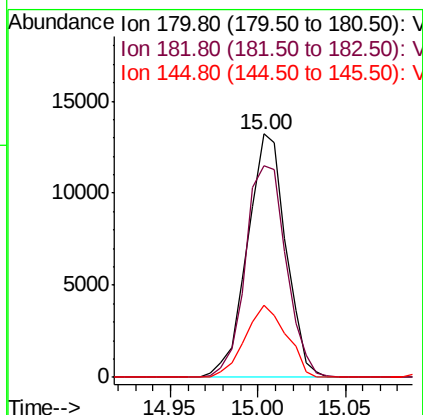
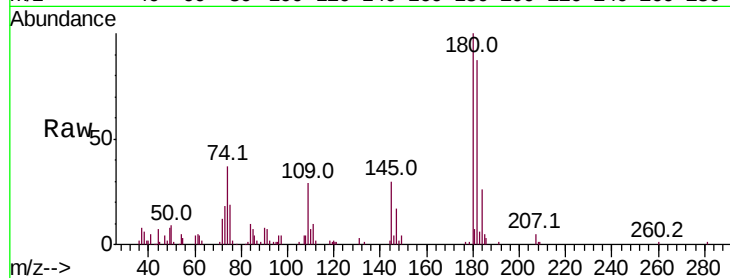




#93
 1,2,4-Trichlorobenzene
 Concen: 4.468 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

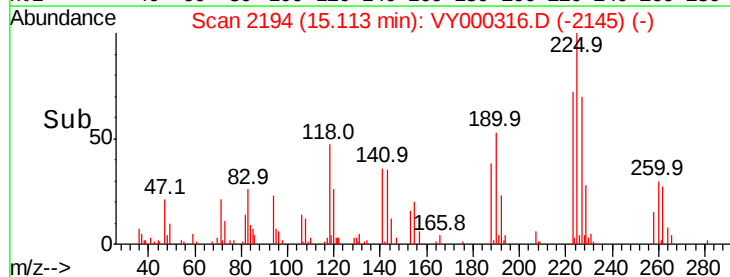
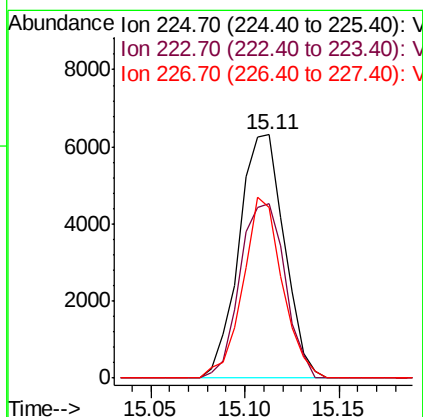
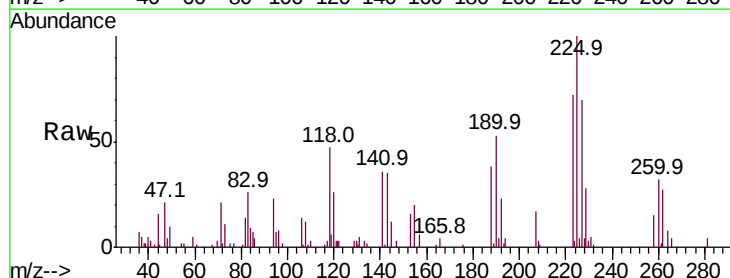
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

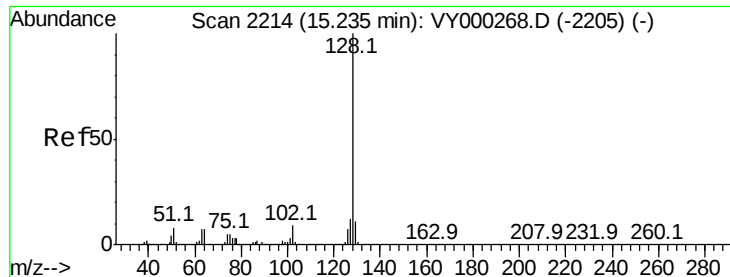
Tot Ion:180 Resp: 20259
 Ion Ratio Lower Upper
 180 100
 182 92.2 47.5 142.6
 145 31.5 15.4 46.1



#94
 Hexachlorobutadiene
 Concen: 4.298 ug/l
 RT: 15.11 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

Tgt Ion:225 Resp: 10546
 Ion Ratio Lower Upper
 225 100
 223 71.3 31.9 95.7
 227 64.7 31.4 94.2





#95

Naphthalene

Concen: 4.861 ug/l

RT: 15.23 min Scan# 2213

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

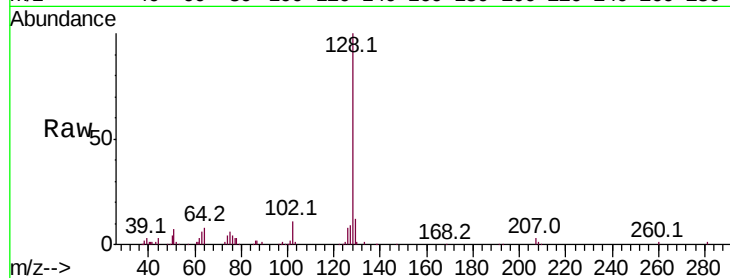
Tot Ion:128 Resp: 49194

Ion Ratio Lower Upper

128 100

127 12.1 9.6 14.4

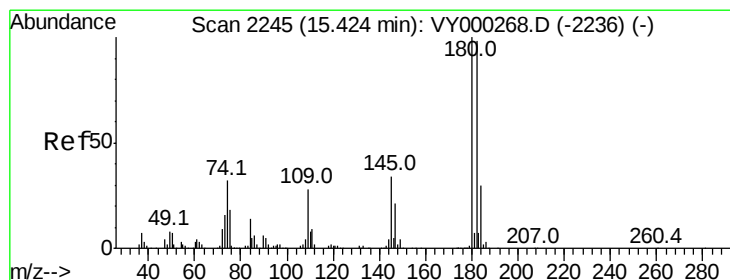
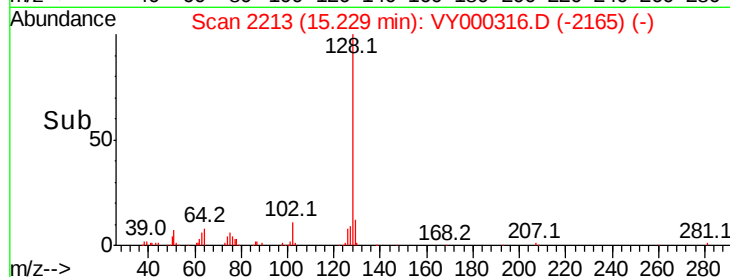
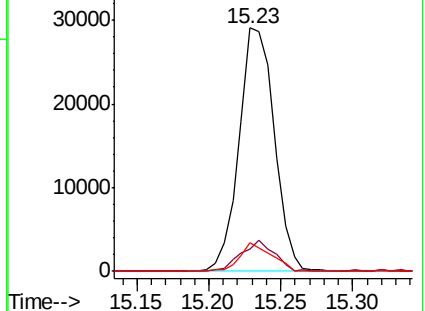
129 10.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 4.626 ug/l

RT: 15.42 min Scan# 2244

Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

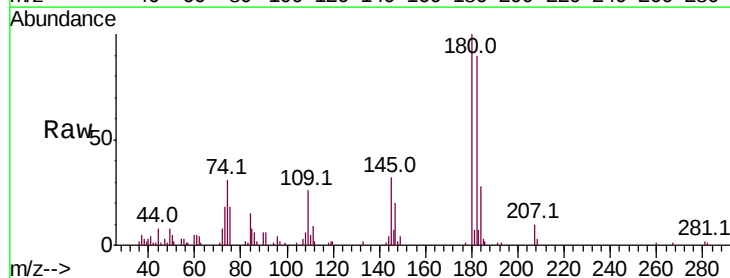
Tgt Ion:180 Resp: 18905

Ion Ratio Lower Upper

180 100

182 93.8 46.5 139.5

145 32.4 16.2 48.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

