

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

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 12:40:24 AM

Quant Time: Oct 15 17:52:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 15 17:47:25 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

33) 1,2-Dichloroethane-d4	8.15	65	178699	55.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.48%	
35) Dibromofluoromethane	7.73	113	157621	51.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.08%	
50) Toluene-d8	10.18	98	634640	53.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.84%	
62) 4-Bromofluorobenzene	12.48	95	224993	49.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.90	85	12836	4.737	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	3.541	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	6.306	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

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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	10855m	4.193	ug/l	
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

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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

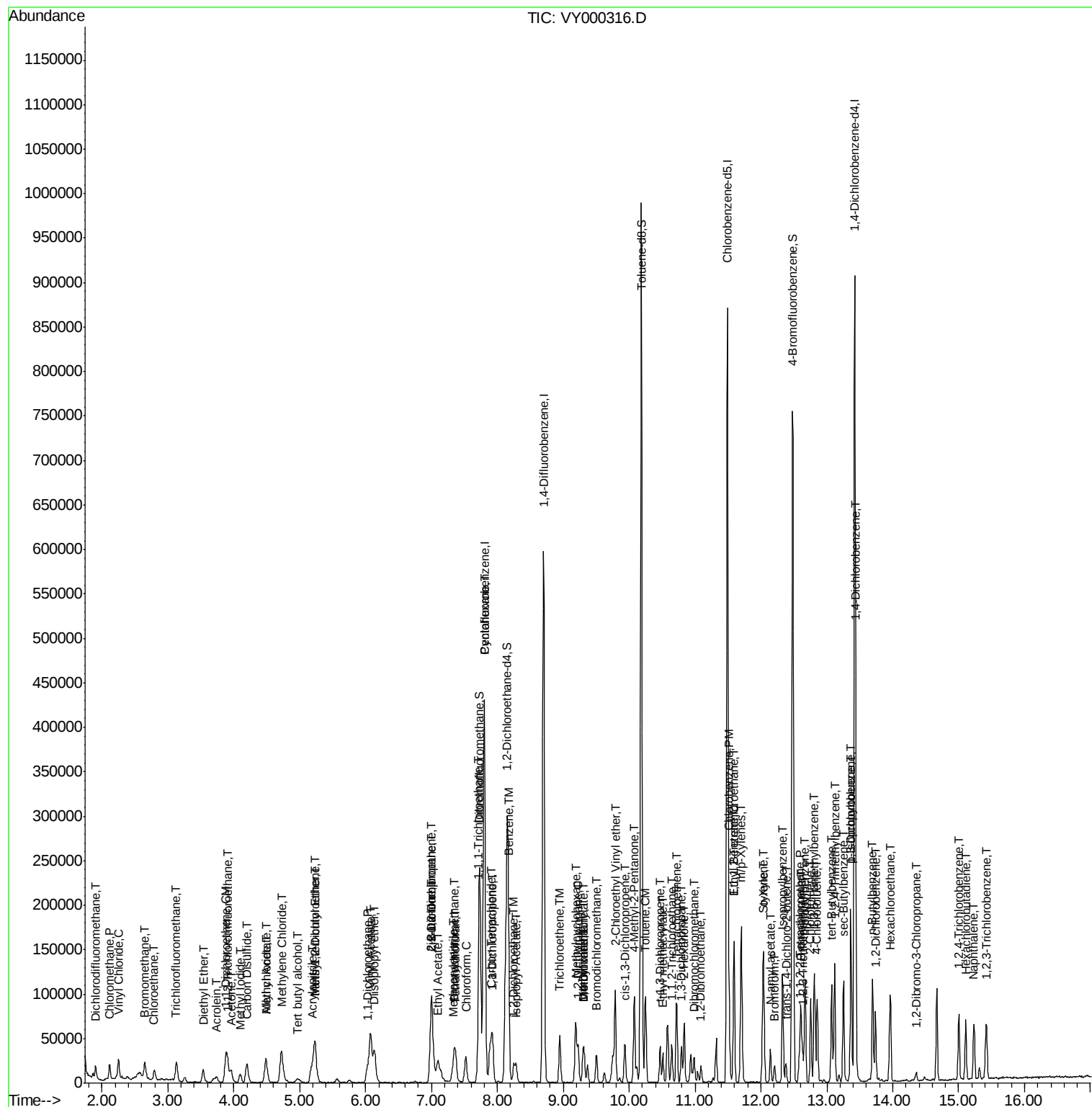
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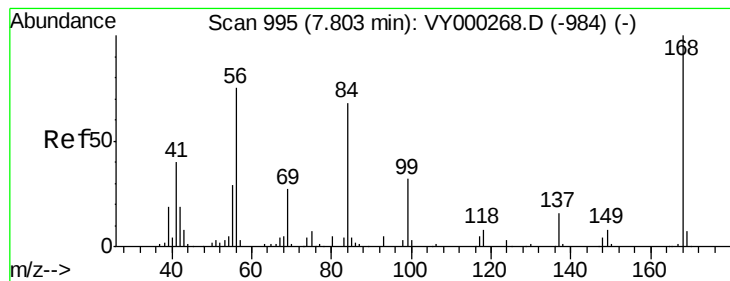
Instrument :
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#1

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

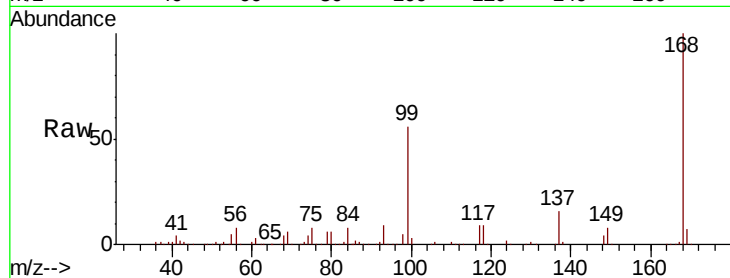
99 56.1 46.6 69.8

Manual Integrations

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

Ion 98.90 (98.60 to 99.60): VY000316.D (-946) (-)

7.80

150000

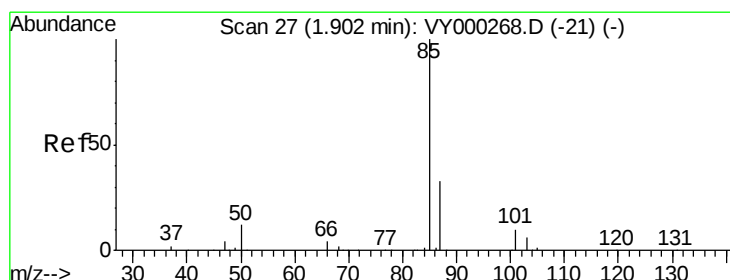
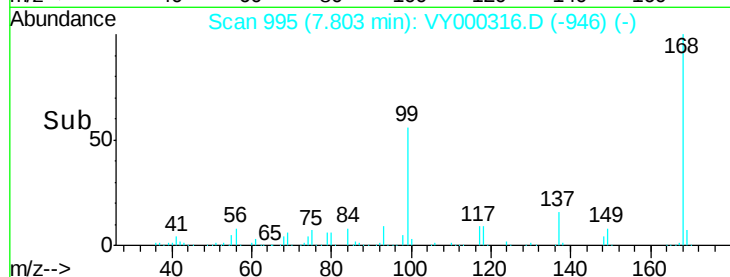
100000

50000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 4.737 ug/l

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000316.D

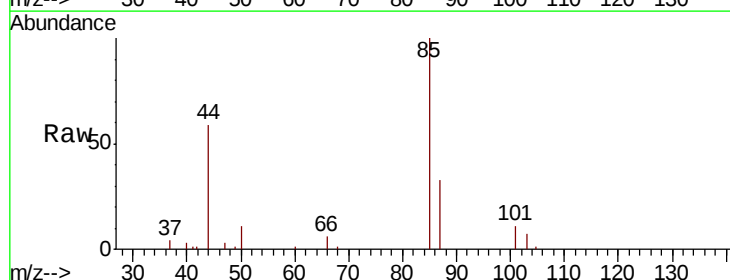
Acq: 15 Oct 2019 13:39

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) (-)

Ion 86.90 (86.60 to 87.60): VY000316.D (-1) (-)

1.90

8000

6000

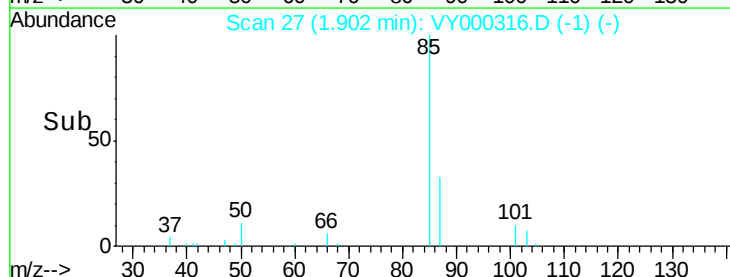
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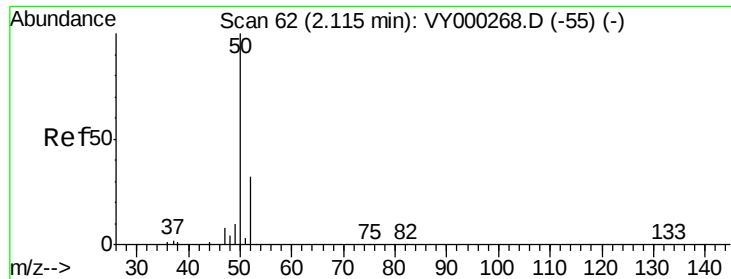
2000

0

1.85 1.90 1.95 2.00

Time-->





#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

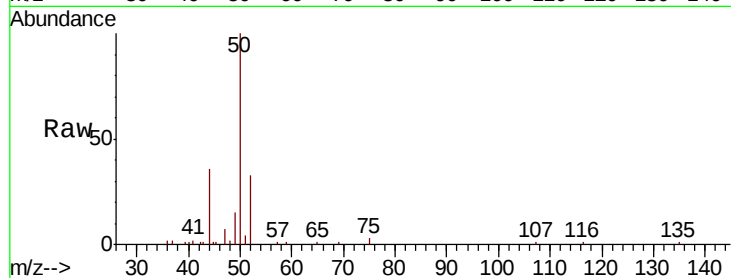
52 32.6 25.3 37.9

Manual Integrations

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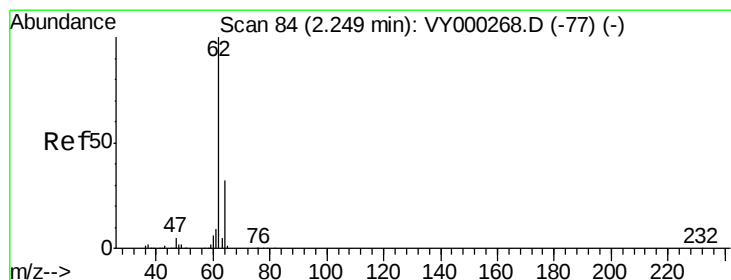
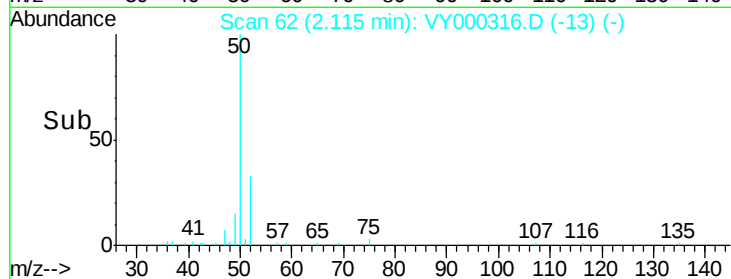
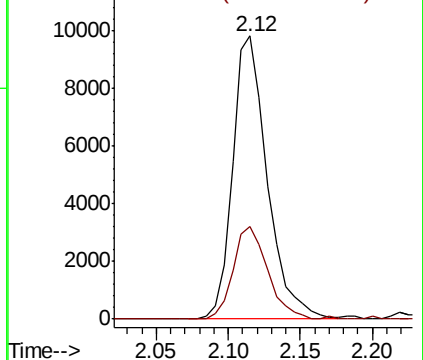
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Abundance Ion 49.90 (49.60 to 50.60): VY0

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

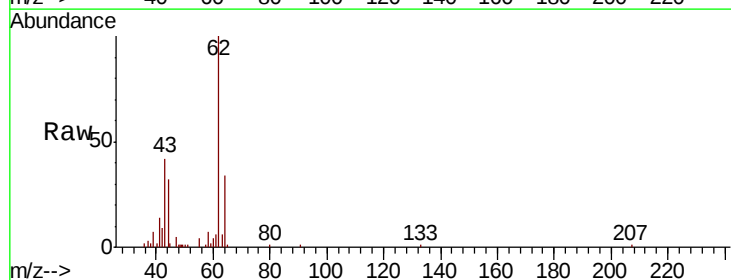
Acq: 15 Oct 2019 13:39

Tgt Ion: 62 Resp: 16724

Ion Ratio Lower Upper

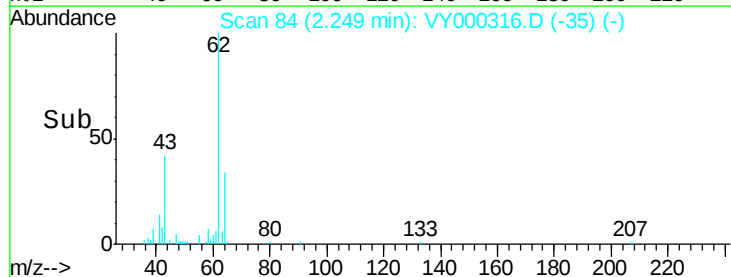
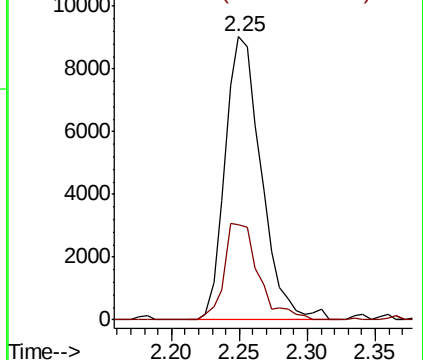
62 100

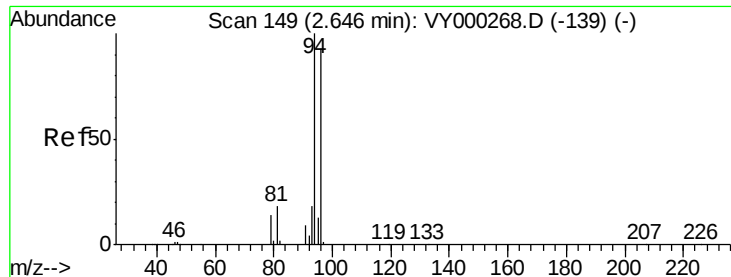
64 33.8 25.6 38.4



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

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Tot Ion: 94 Resp: 13558

Ion Ratio Lower Upper

94 100

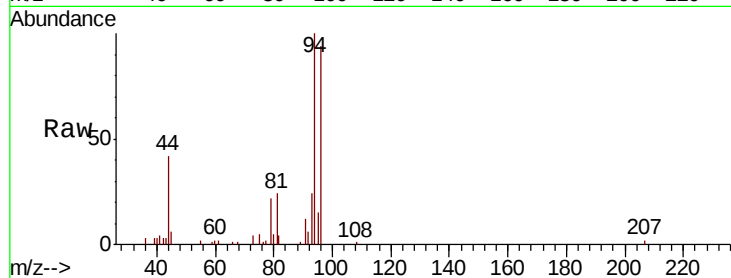
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Manual Integrations

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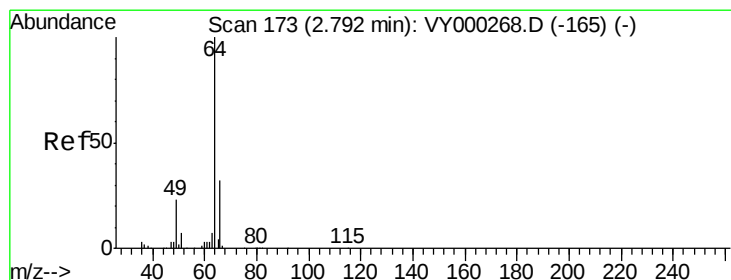
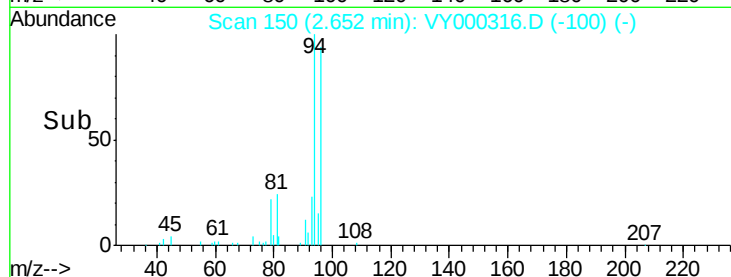
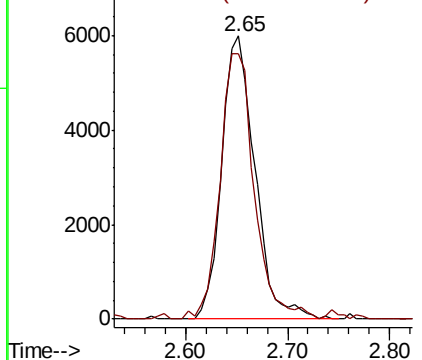
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Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#6

Chloroethane

Concen: 4.782 ug/l

RT: 2.80 min Scan# 174

Delta R.T. 0.01 min

Lab File: VY000316.D

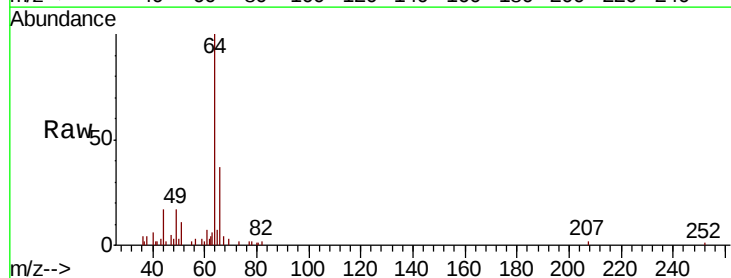
Acq: 15 Oct 2019 13:39

Tgt Ion: 64 Resp: 11564

Ion Ratio Lower Upper

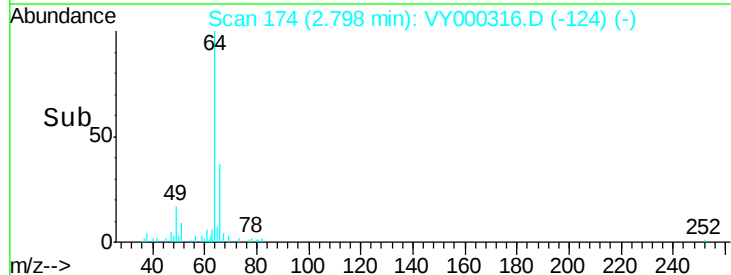
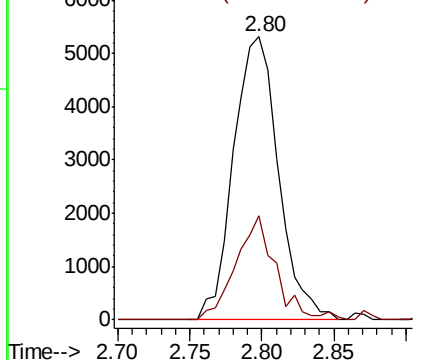
64 100

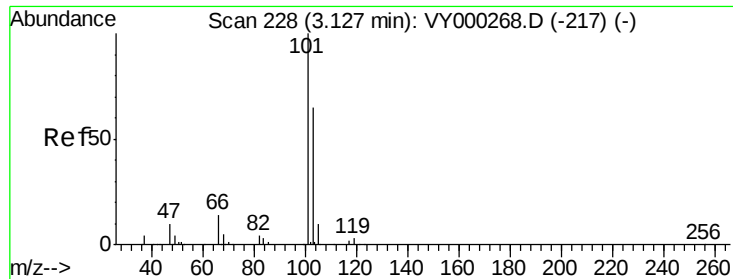
66 36.9 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0





#7

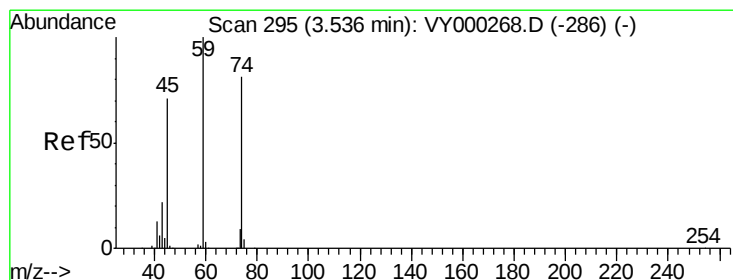
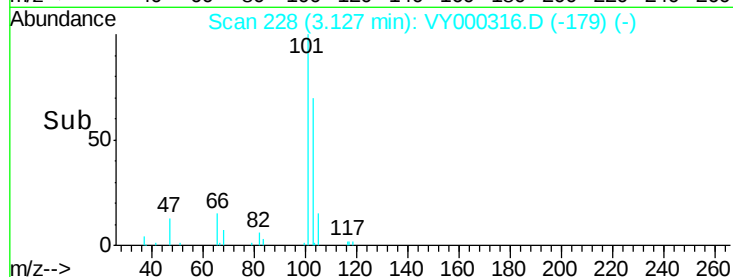
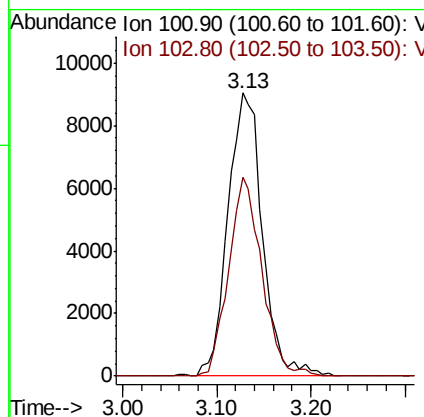
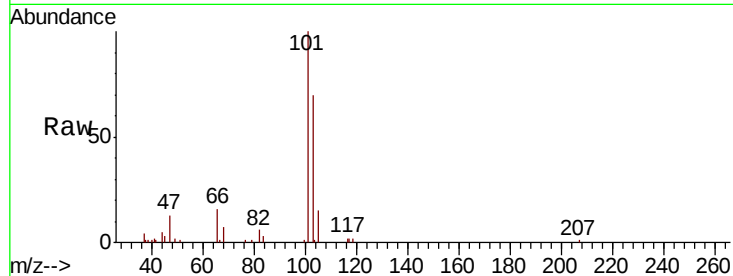
Trichlorofluoromethane
Concen: 4.479 ug/l
RT: 3.13 min Scan# 228
Delta R.T. -0.00 min
Lab File: VY000316.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	70.5	52.2	78.4

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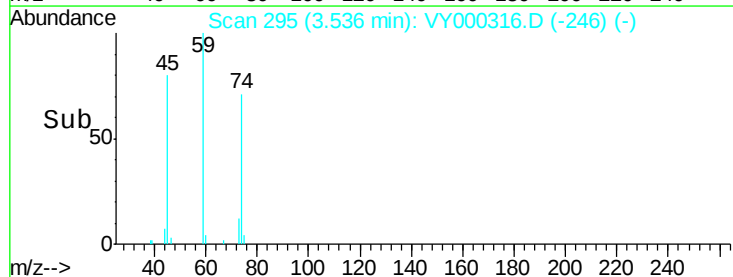
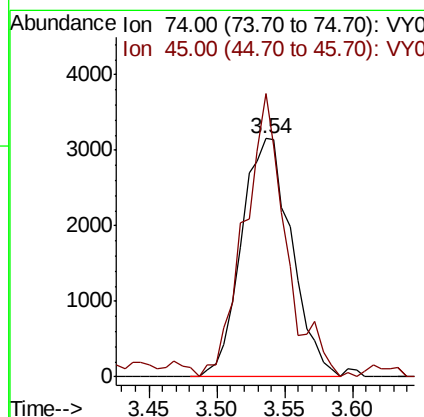
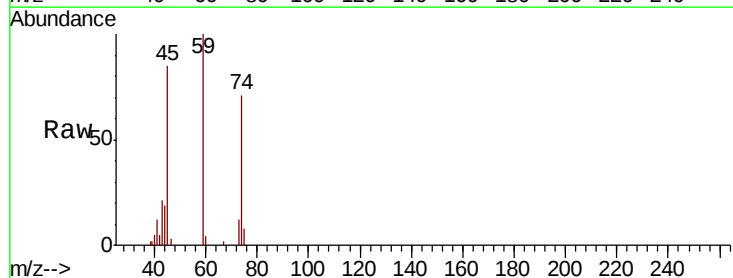
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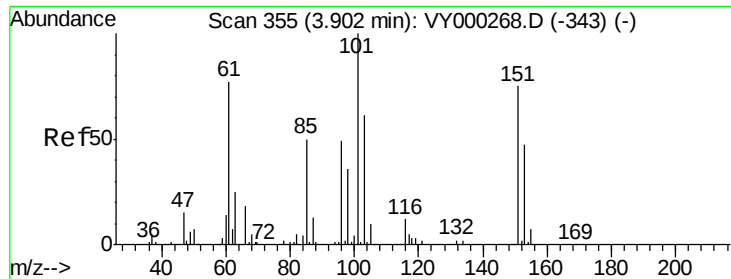


#8

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	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

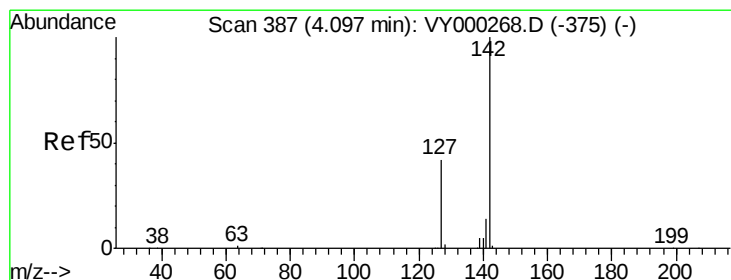
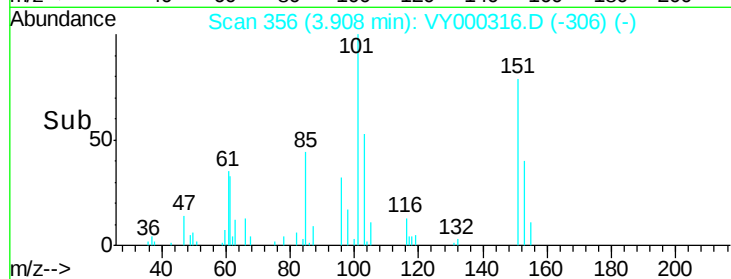
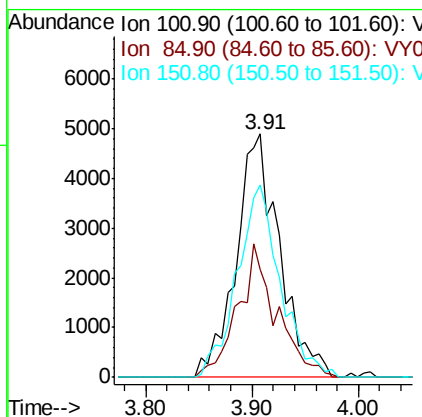
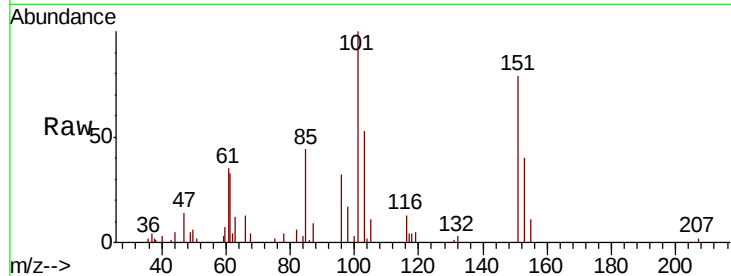
ClientSampleId :

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

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#10

Methyl Iodide

Concen: 3.541 ug/l

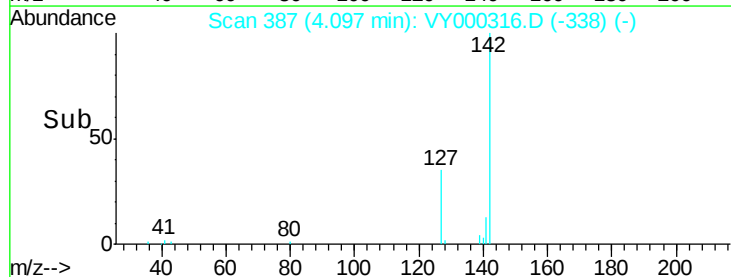
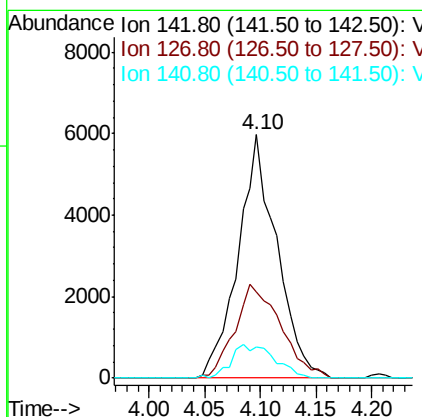
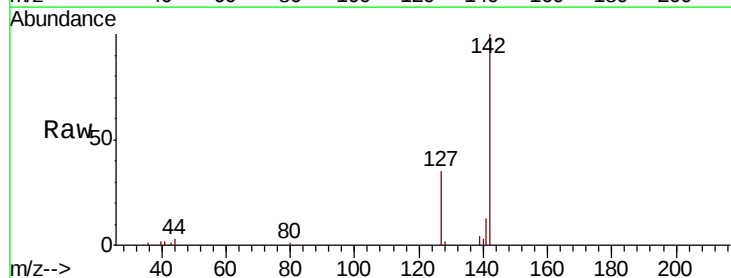
RT: 4.10 min Scan# 387

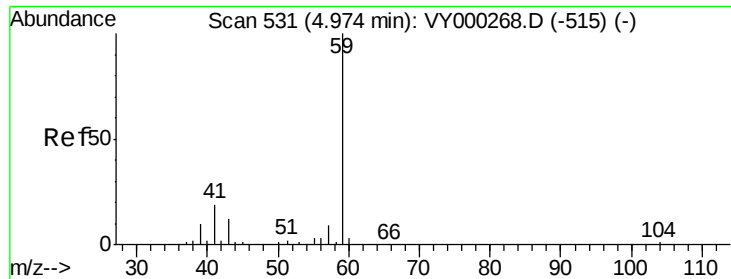
Delta R.T. 0.00 min

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





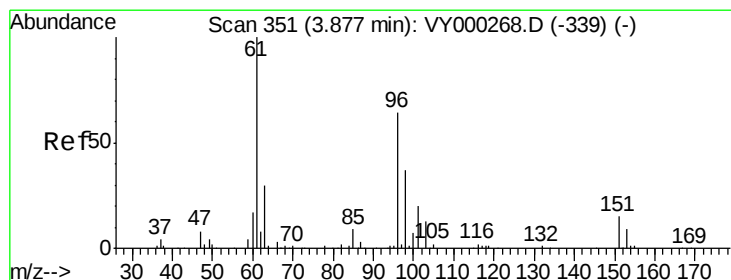
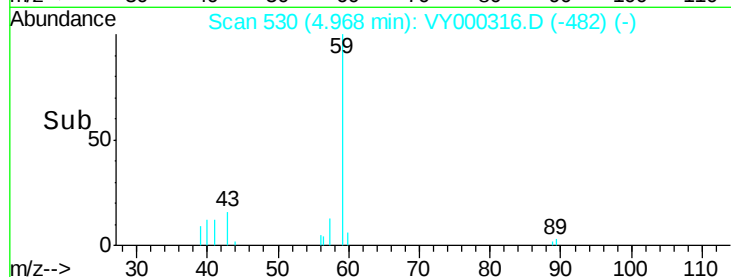
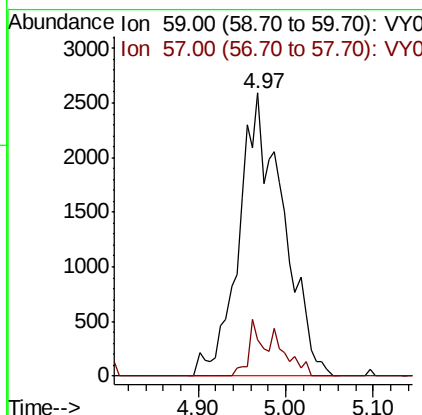
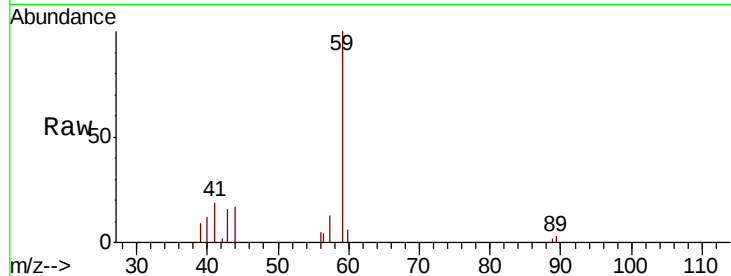
#11
Tert butyl alcohol
Concen: 27.164 ug/l
RT: 4.97 min Scan# 530
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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#

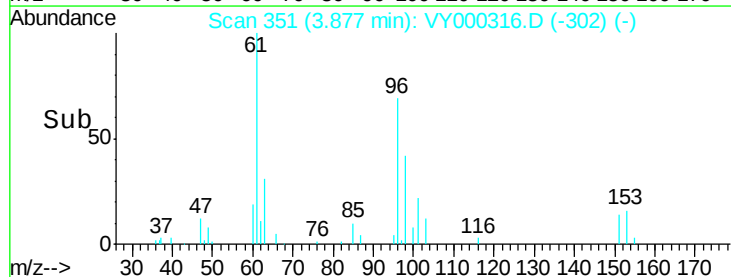
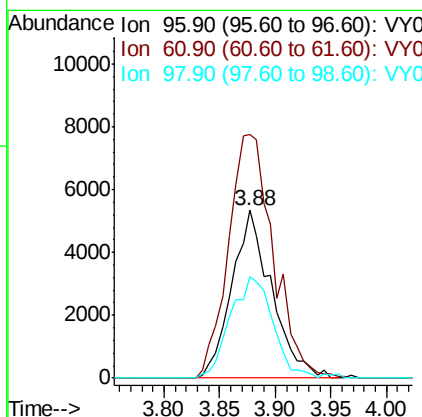
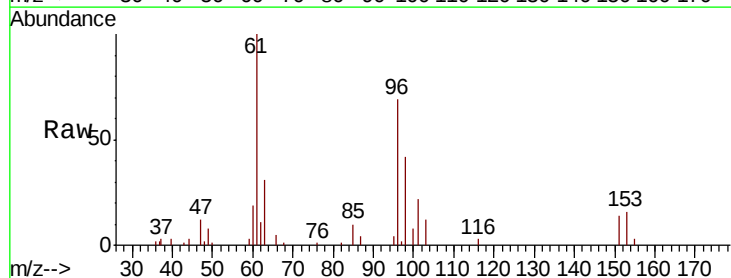
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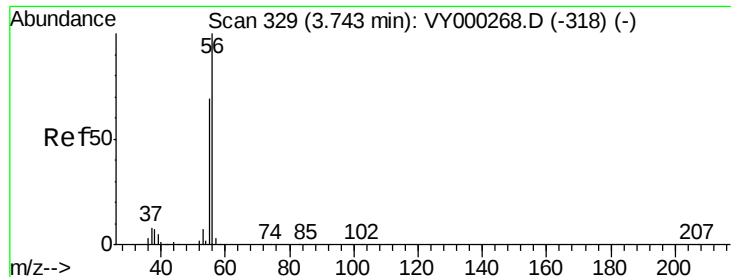
MMDadoda
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#12
1,1-Dichloroethene
Concen: 4.333 ug/l
RT: 3.88 min Scan# 351
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

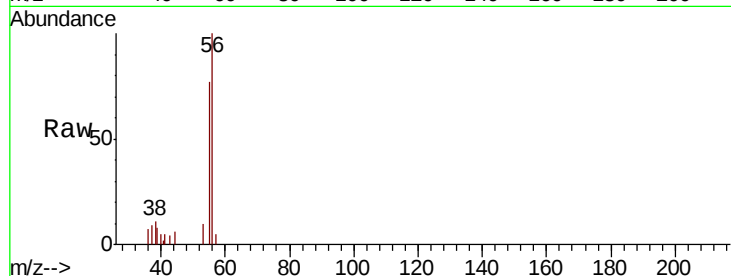
55 70.9 55.7 83.5

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Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

3000

2500

2000

1500

1000

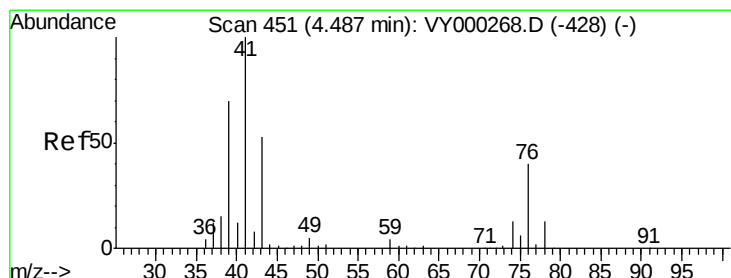
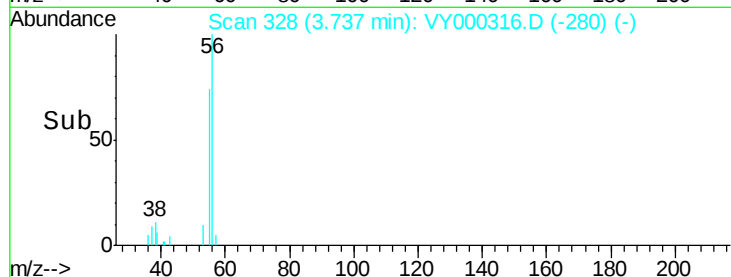
500

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

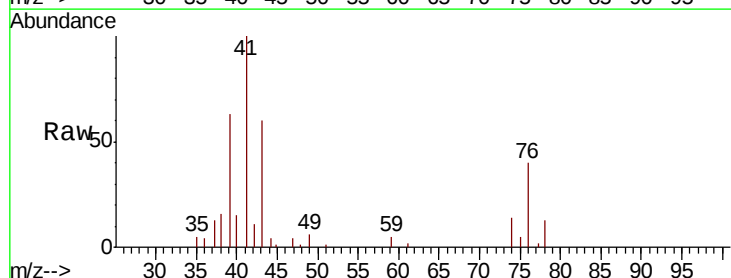
Tgt Ion: 41 Resp: 21773

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

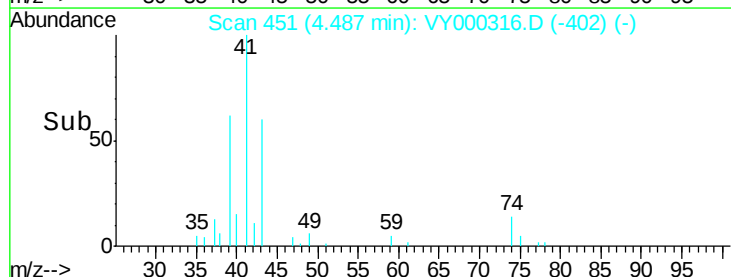
2000

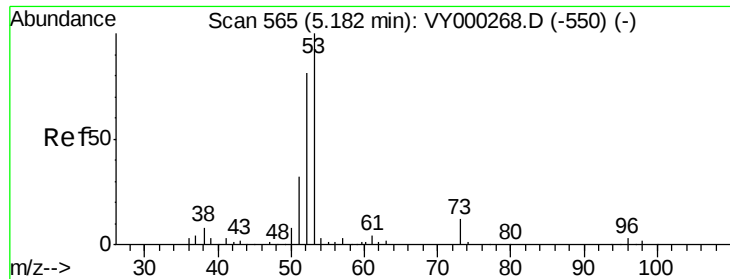
0

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

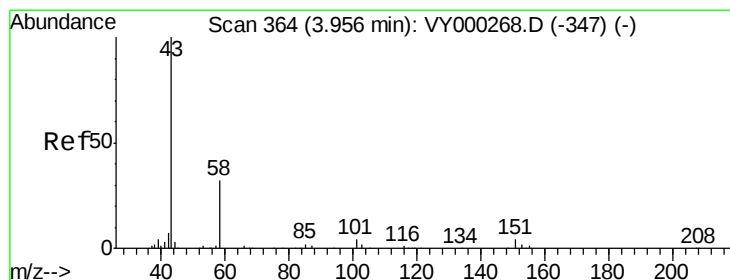
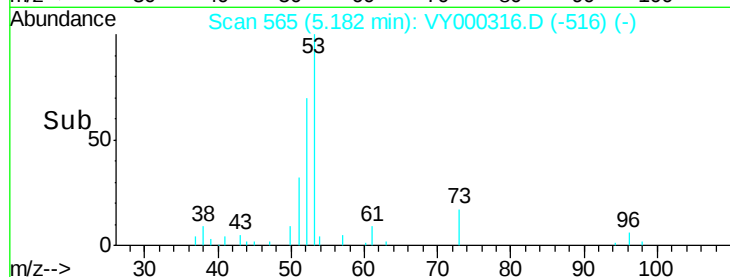
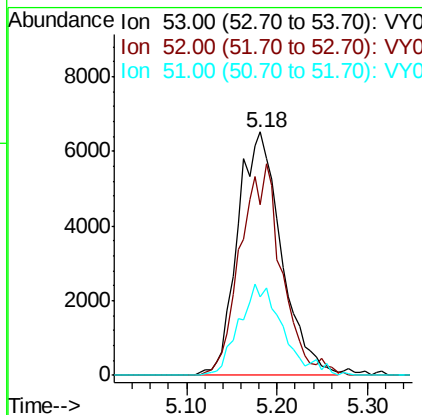
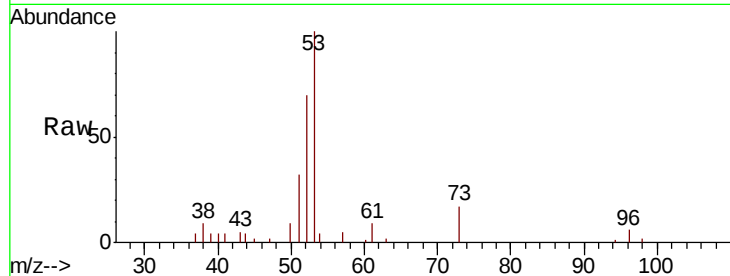
ClientSampleId :

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

Manual Integrations
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#16

Acetone

Concen: 21.073 ug/l

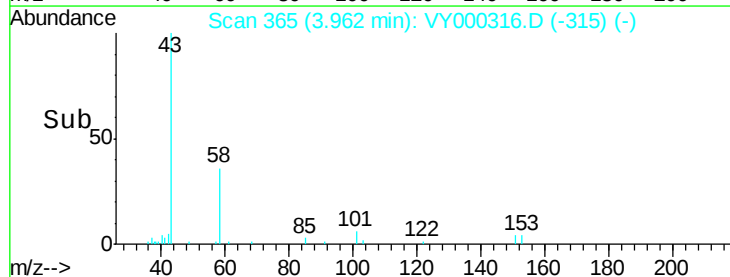
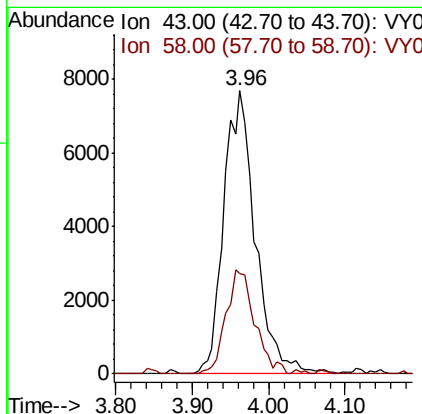
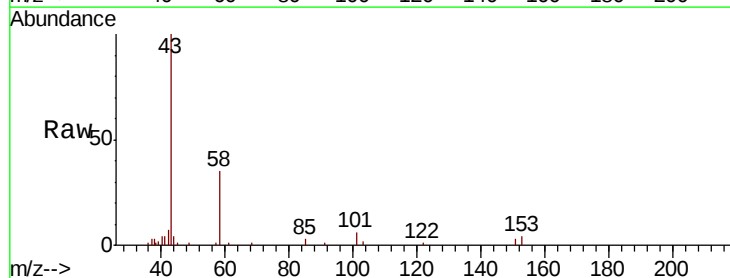
RT: 3.96 min Scan# 365

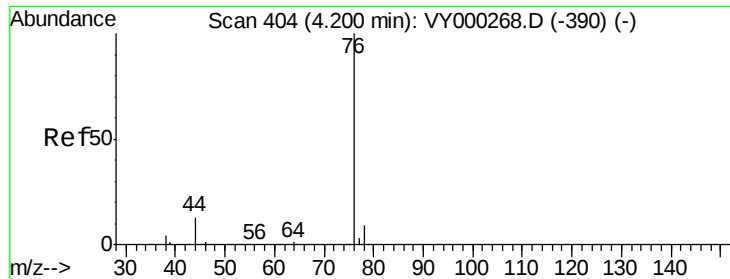
Delta R.T. 0.01 min

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





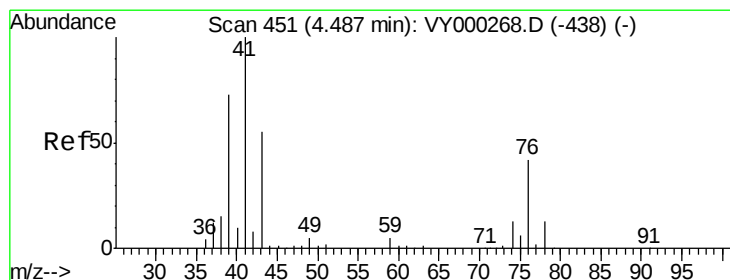
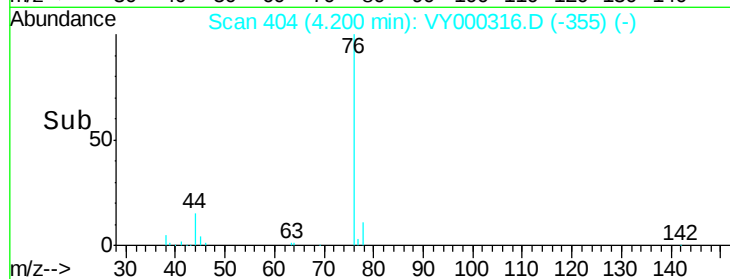
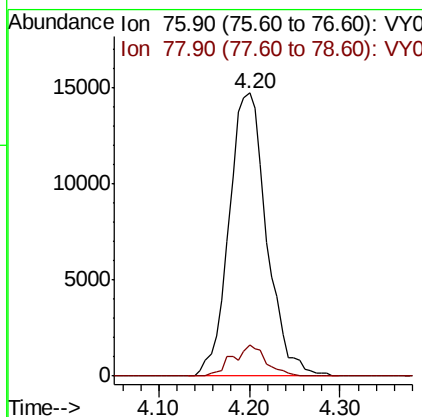
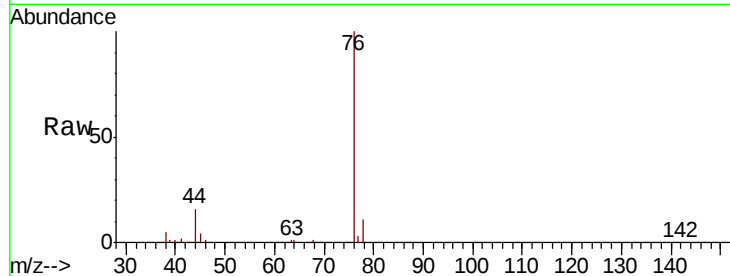
#17
Carbon Disulfide
Concen: 4.383 ug/l
RT: 4.20 min Scan# 404
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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#

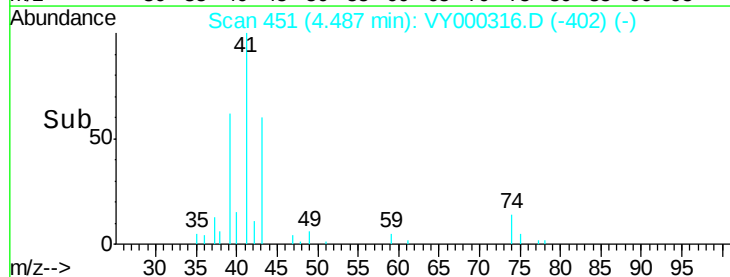
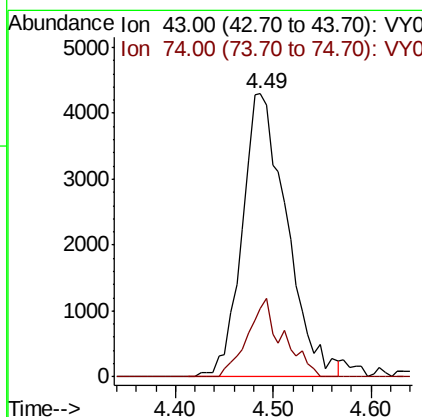
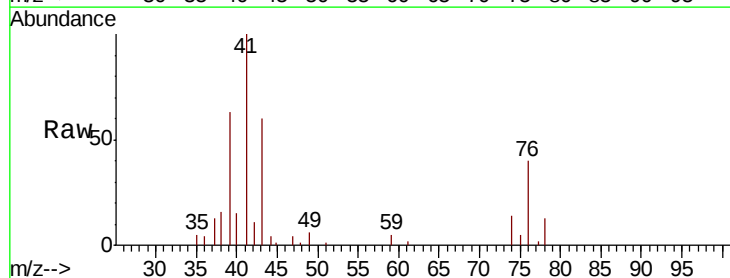
Manual Integrations
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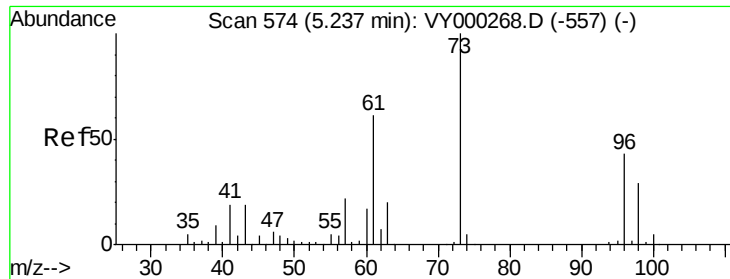
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#18
Methyl Acetate
Concen: 5.255 ug/l
RT: 4.49 min Scan# 451
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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





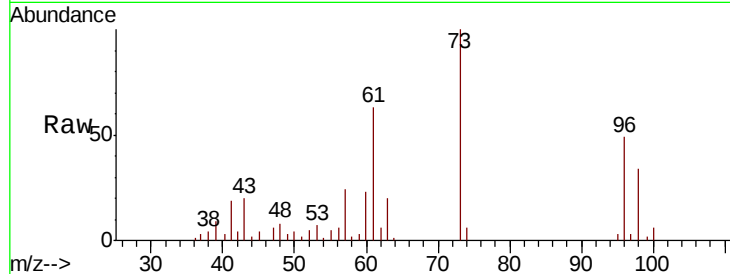
#19
Methyl tert-butyl Ether
Concen: 4.388 ug/l
RT: 5.23 min Scan# 573
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

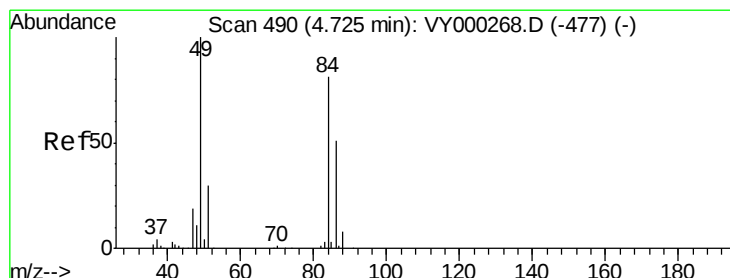
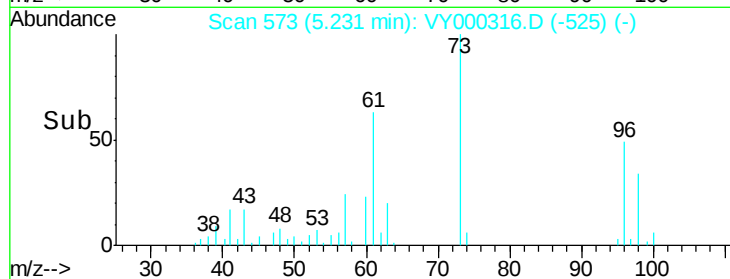
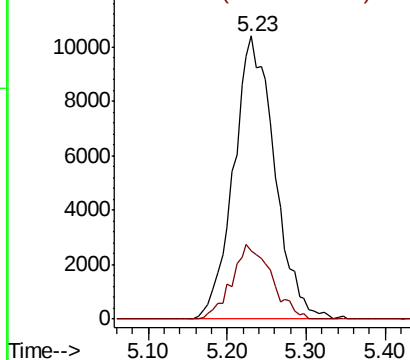
Tot Ion: 73 Resp: 37496
Ion Ratio Lower Upper
73 100
57 24.2 17.4 26.0

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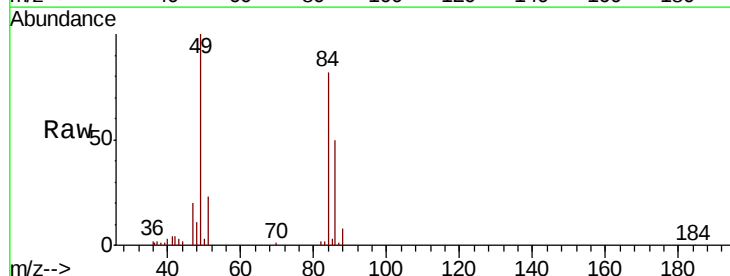


Abundance Ion 73.00 (72.70 to 73.70): VY0
Ion 57.00 (56.70 to 57.70): VY0

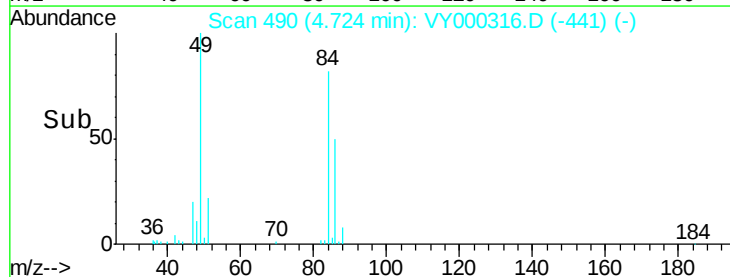
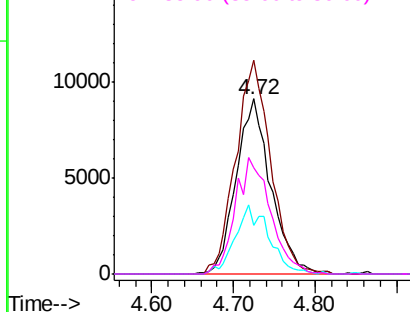


#20
Methylene Chloride
Concen: 6.306 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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



Abundance Ion 83.90 (83.60 to 84.60): VY0
Ion 48.90 (48.60 to 49.60): VY0
Ion 50.90 (50.60 to 51.60): VY0
Ion 85.90 (85.60 to 86.60): VY0





#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

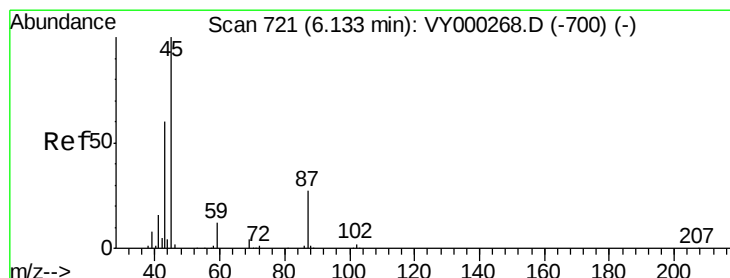
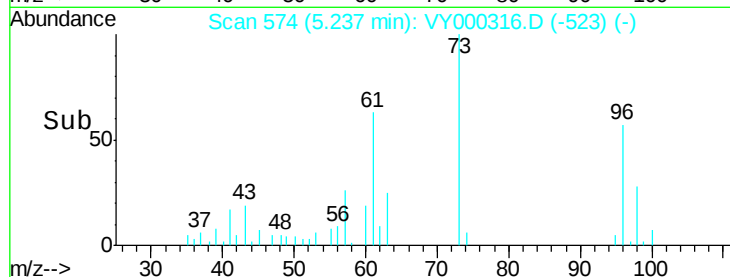
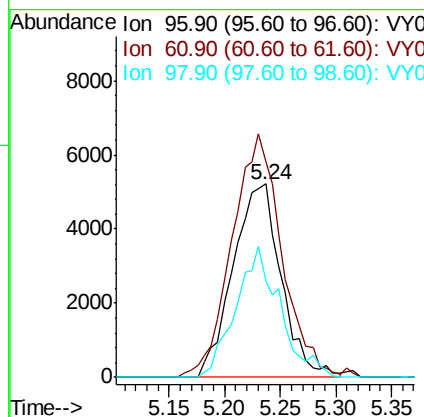
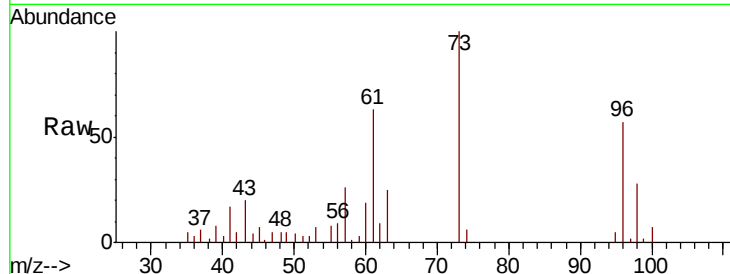
ClientSampleId :

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

Manual Integrations
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#22

Diisopropyl ether

Concen: 4.532 ug/l

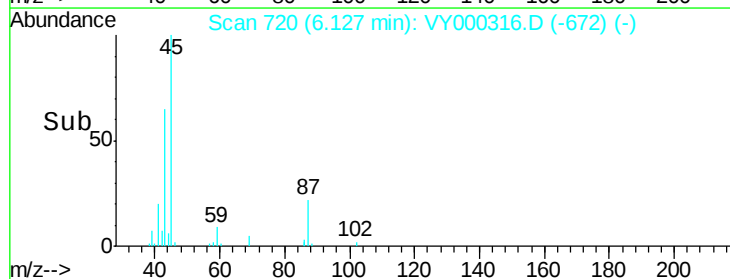
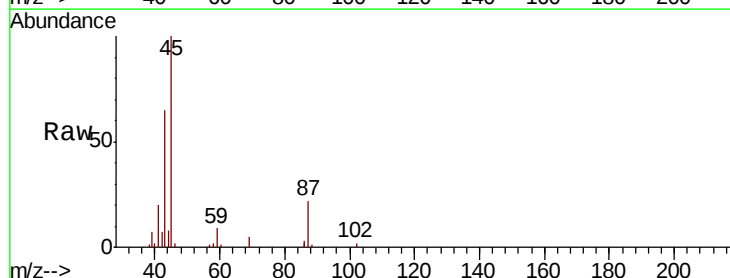
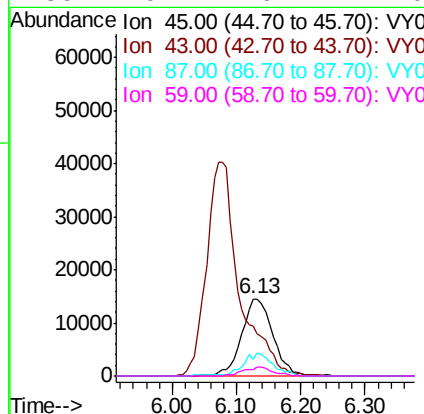
RT: 6.13 min Scan# 720

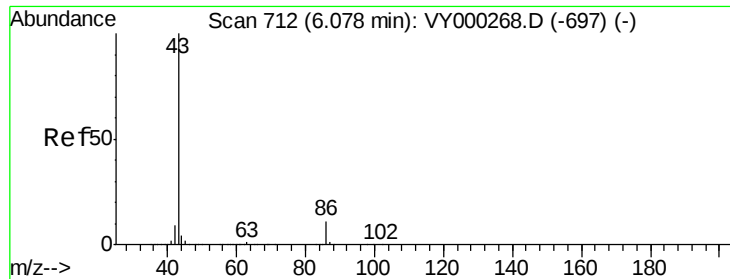
Delta R.T. -0.01 min

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#





#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

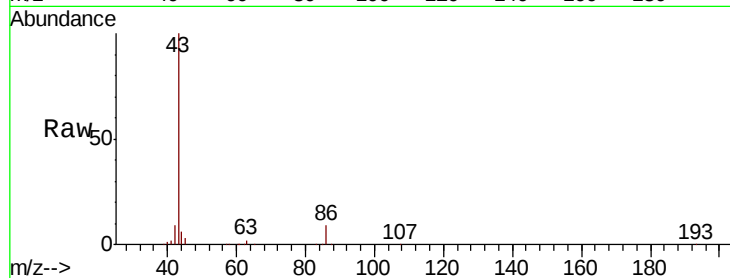
86 9.3 8.6 13.0

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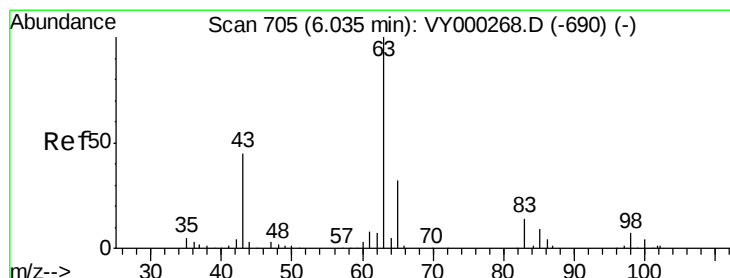
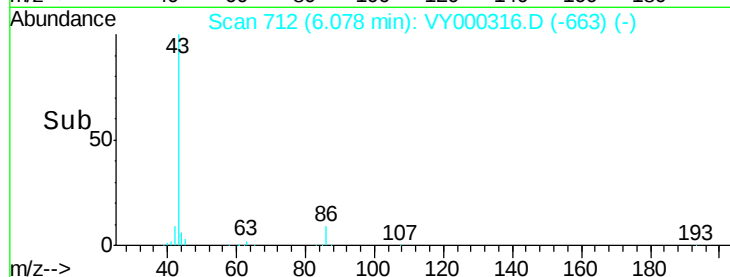
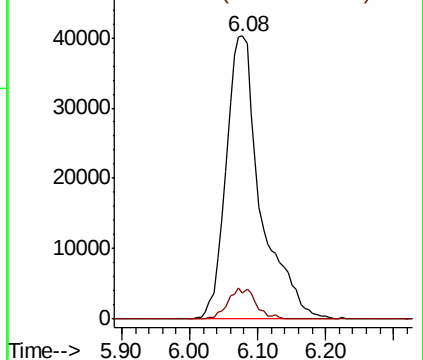
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Abundance Ion 43.00 (42.70 to 43.70): VY0

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

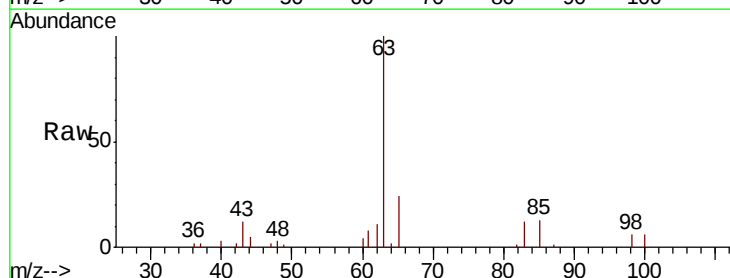
Tgt Ion: 63 Resp: 26067

Ion Ratio Lower Upper

63 100

98 6.1 3.5 10.4

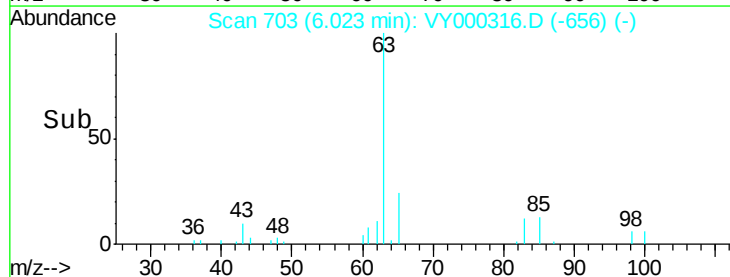
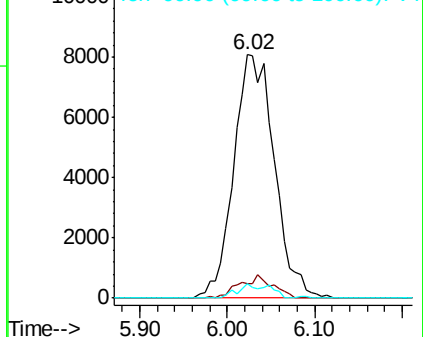
100 6.1 2.1 6.2

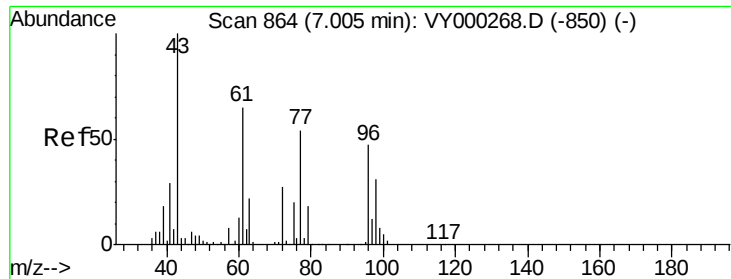


Abundance Ion 62.90 (62.60 to 63.60): VY0

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

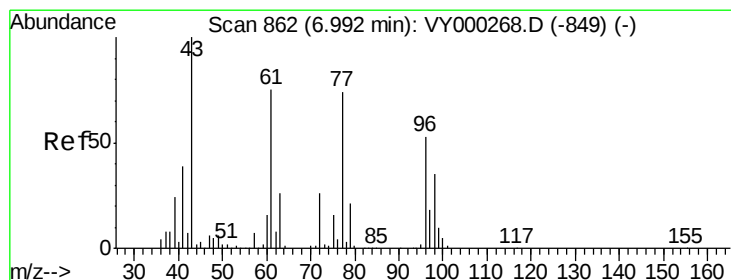
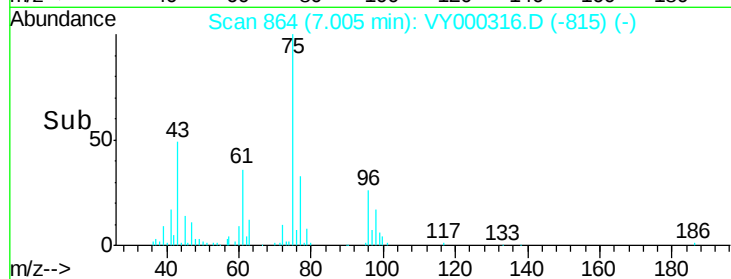
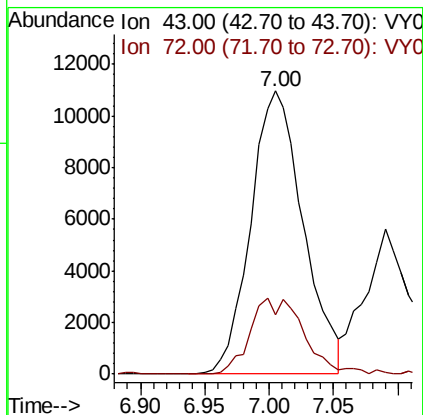
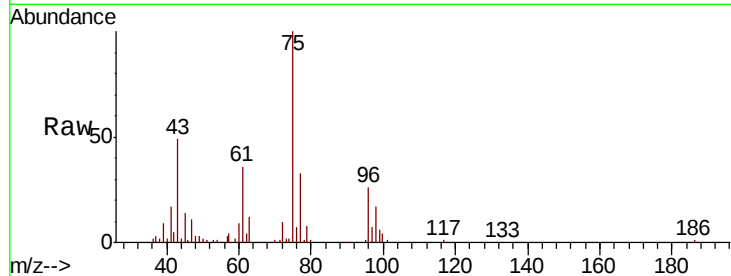
72 20.9 21.4 32.2#

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#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

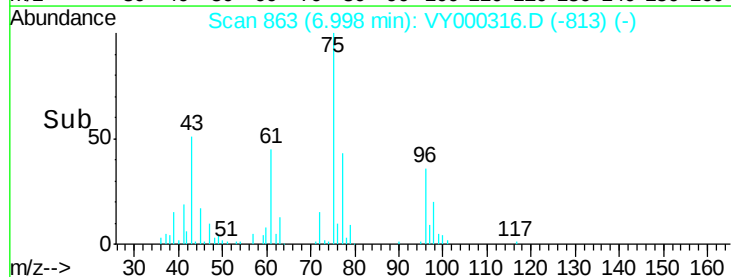
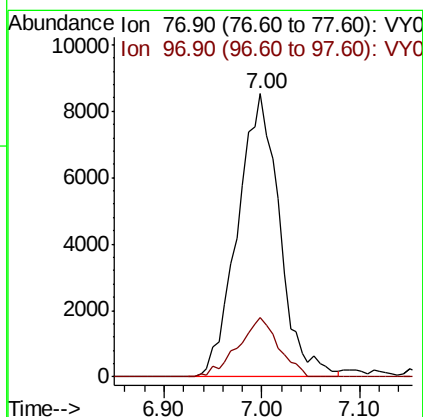
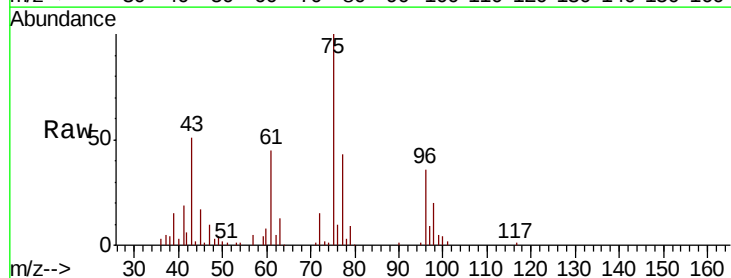
Acq: 15 Oct 2019 13:39

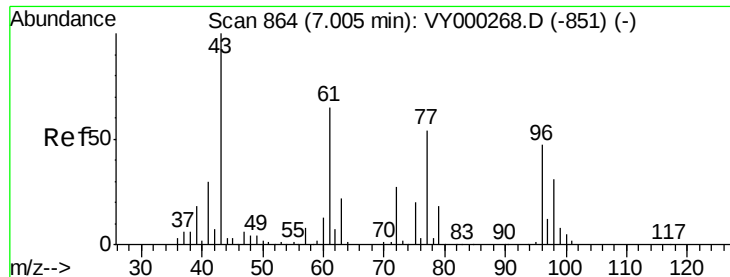
Tgt Ion: 77 Resp: 25268

Ion Ratio Lower Upper

77 100

97 20.2 11.6 34.7





#27

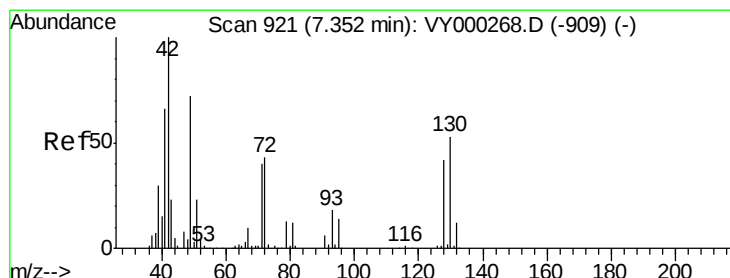
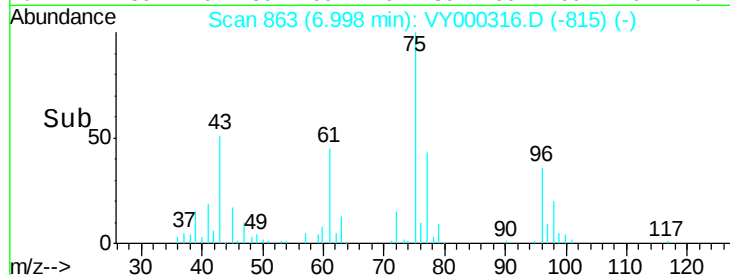
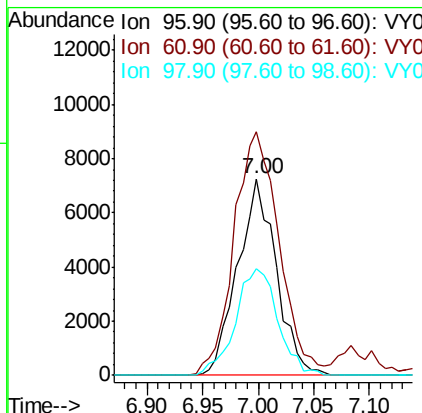
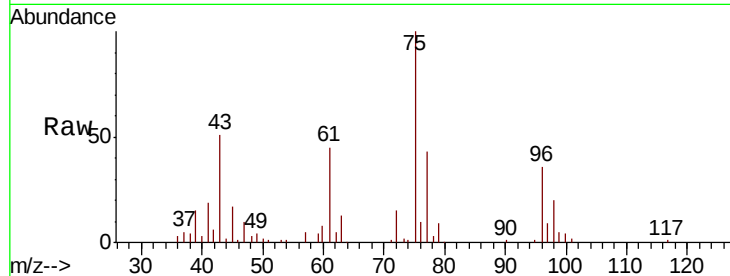
cis-1,2-Dichloroethene
Concen: 4.594 ug/l
RT: 7.00 min Scan# 863
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

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

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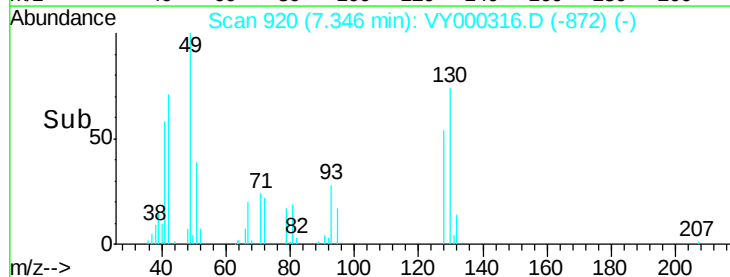
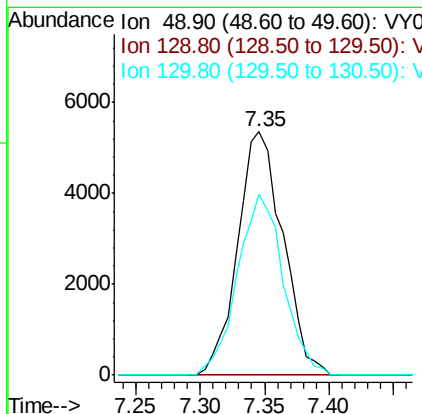
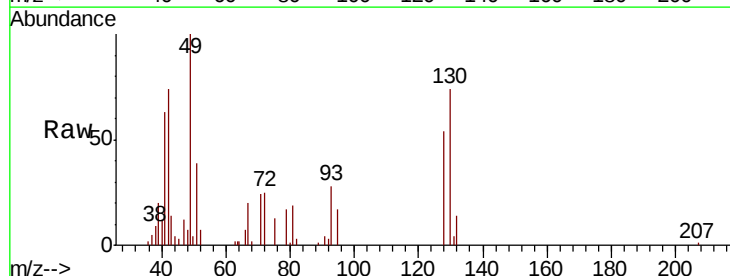
MMDadoda
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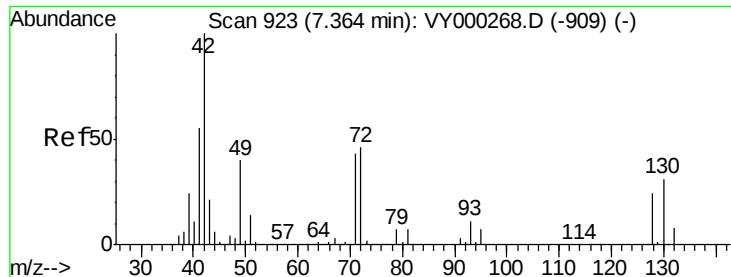


#28

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	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	75.0	58.2	87.2





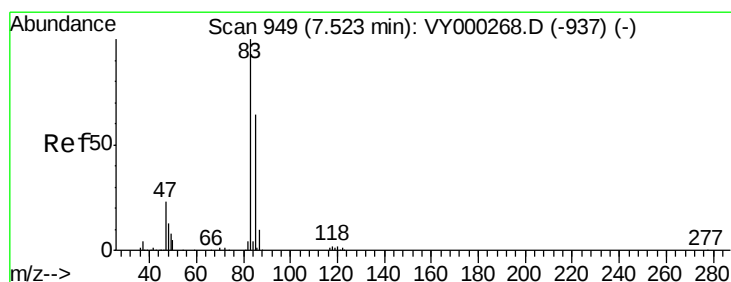
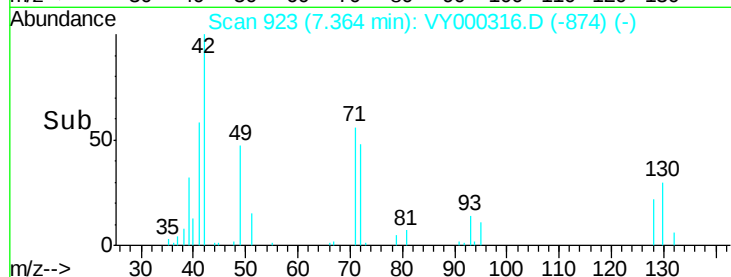
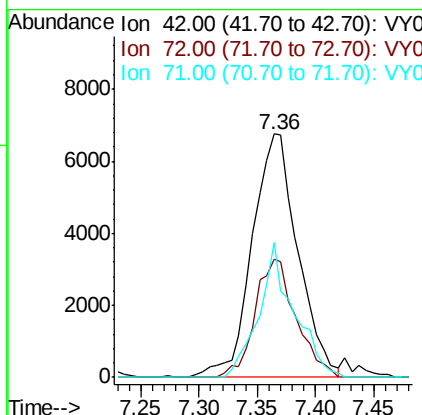
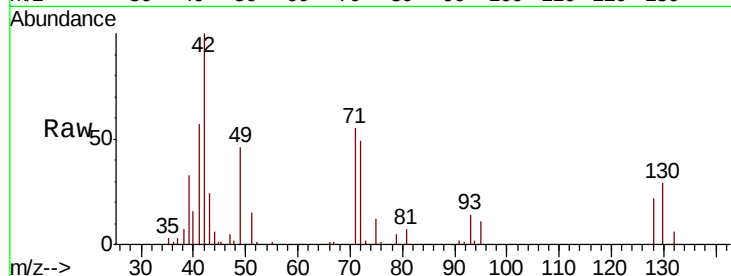
#29
Tetrahydrofuran
Concen: 20.806 ug/l
RT: 7.36 min Scan# 923
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

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

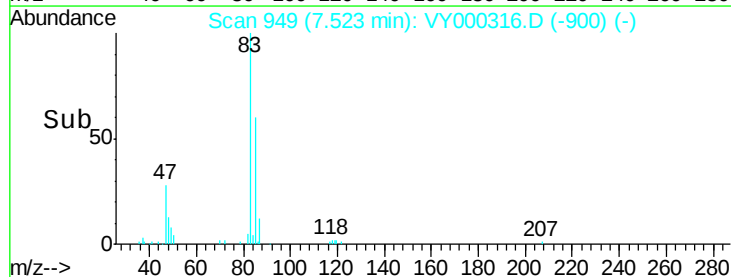
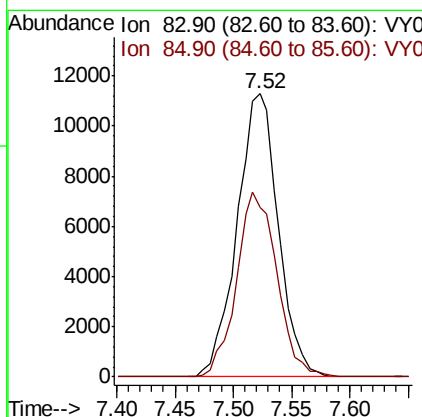
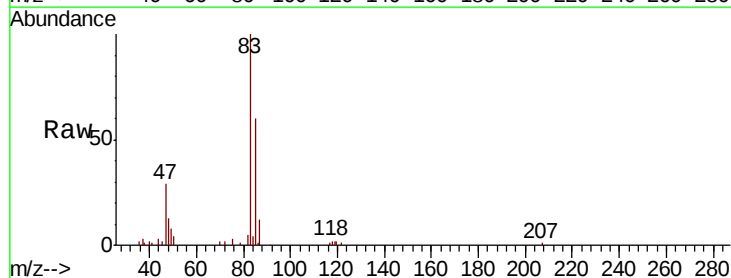
Manual Integrations
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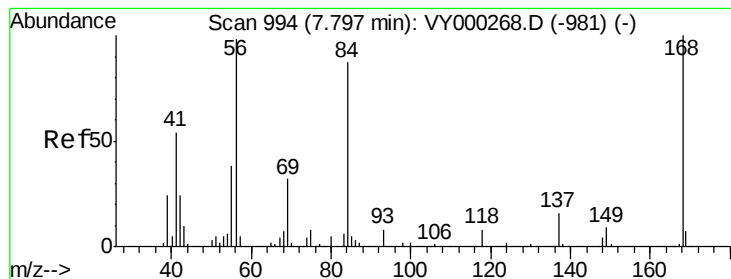
MMDadoda
10/18/2019 12:40:24 AM



#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	Ratio	Lower	Upper
83	100		
85	60.0	51.4	77.2





#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#

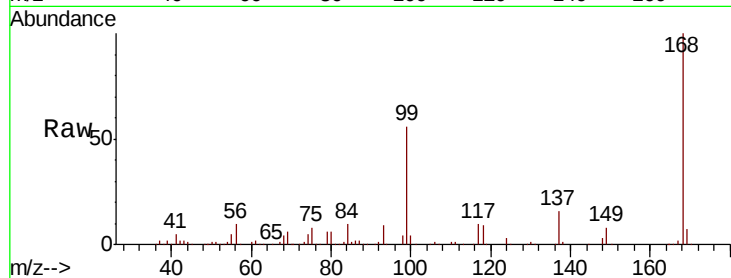
84 95.5 70.8 106.2

Manual Integrations

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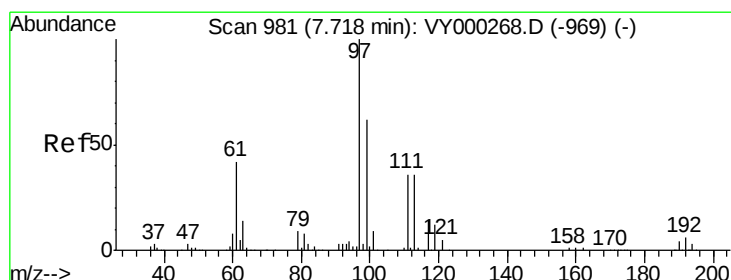
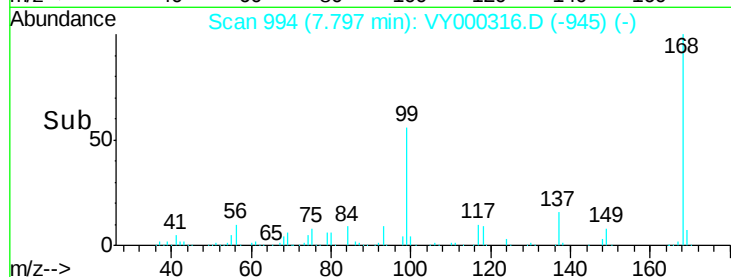
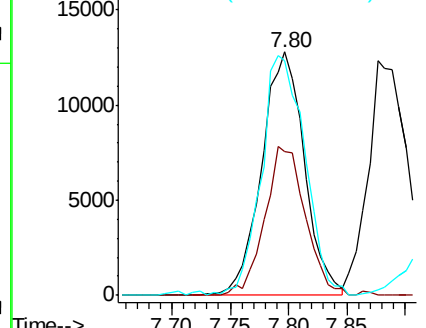
10/18/2019 12:40:24 AM



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

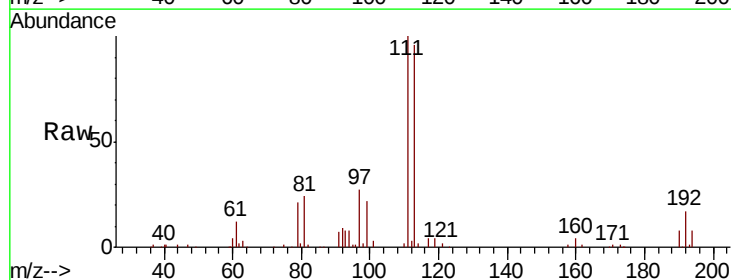
Tgt Ion: 97 Resp: 22686

Ion Ratio Lower Upper

97 100

99 69.8 51.7 77.5

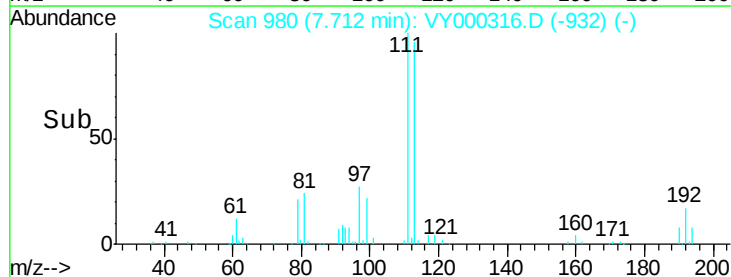
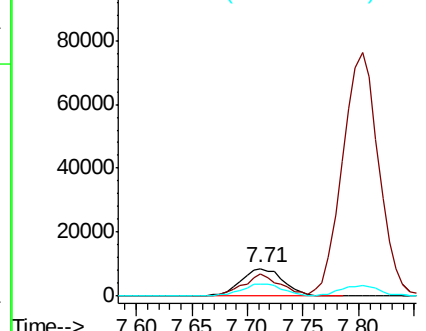
61 43.0 34.5 51.7

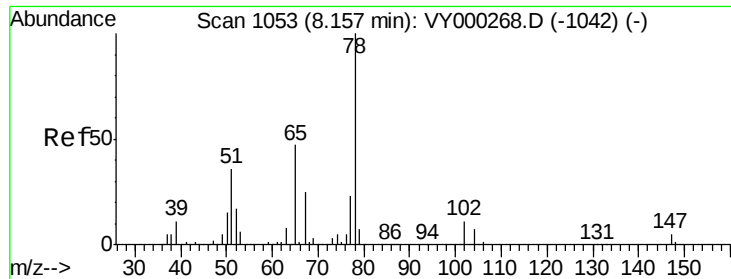


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

Ion 60.90 (60.60 to 61.60): VY0





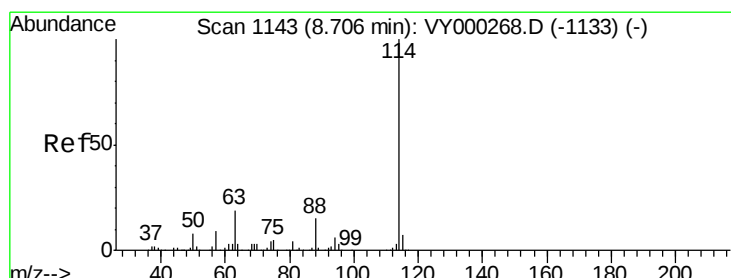
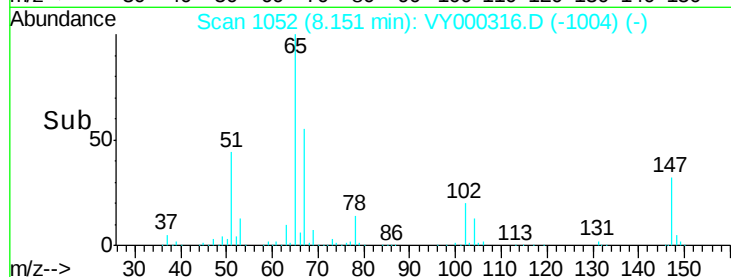
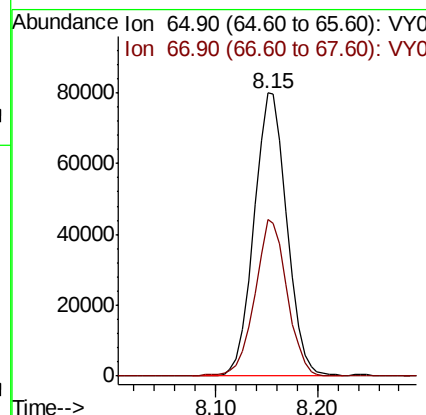
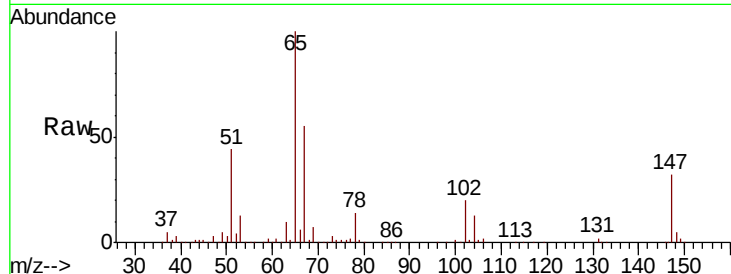
#33
 1,2-Dichloroethane-d4
 Concen: 55.744 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	178699		
67	54.4	0.0	109.4	

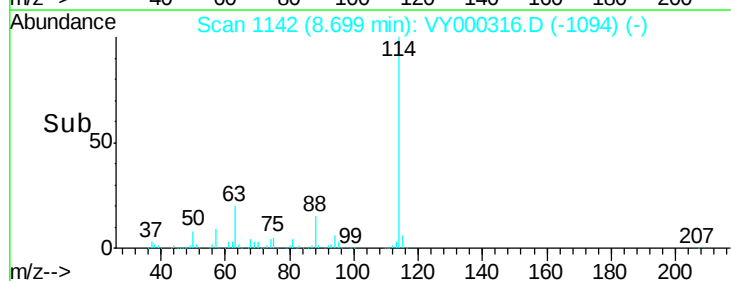
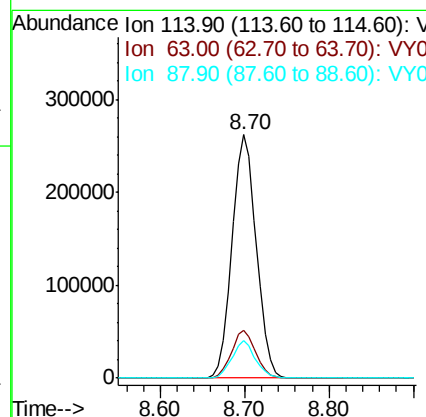
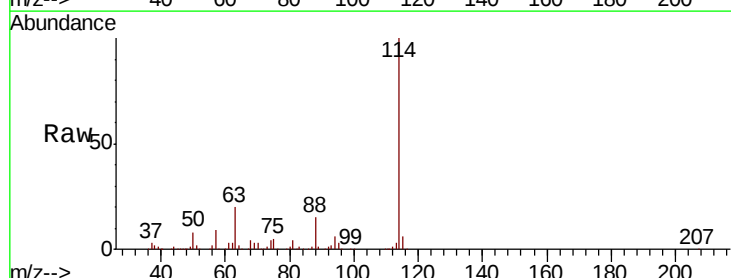
Manual Integrations
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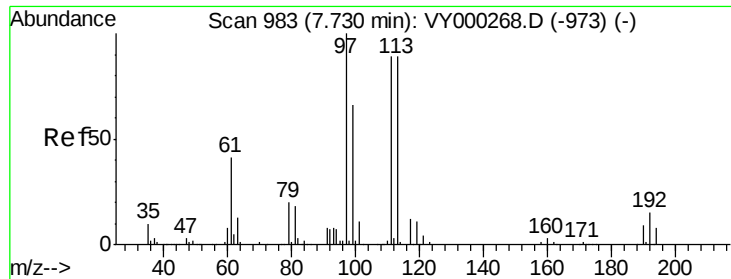
MMDadoda
 10/18/2019 12:40:24 AM



#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	Ratio	Resp	Lower	Upper
114	100	511951		
63	19.7	0.0	37.2	
88	15.3	0.0	30.2	





#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

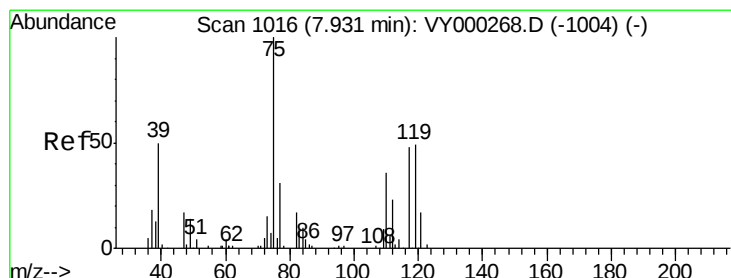
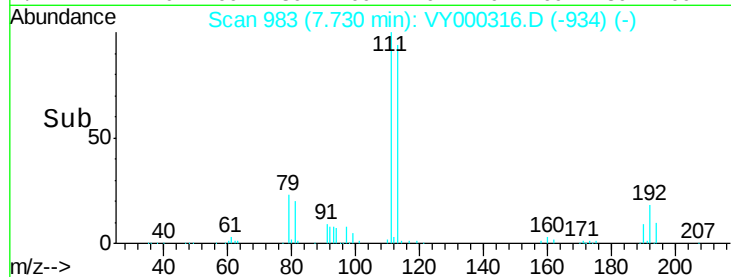
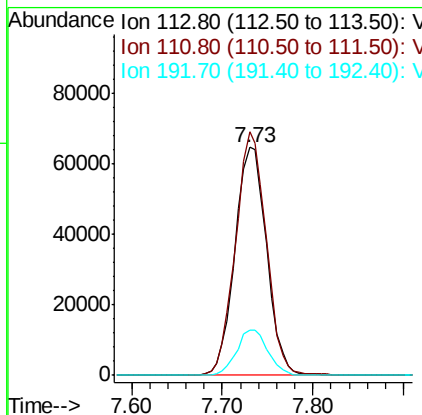
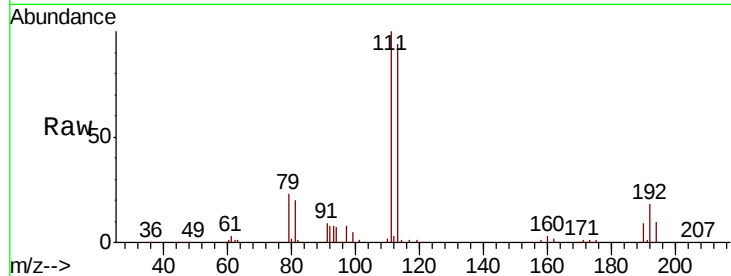
ClientSampleId :

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

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 3.915 ug/l

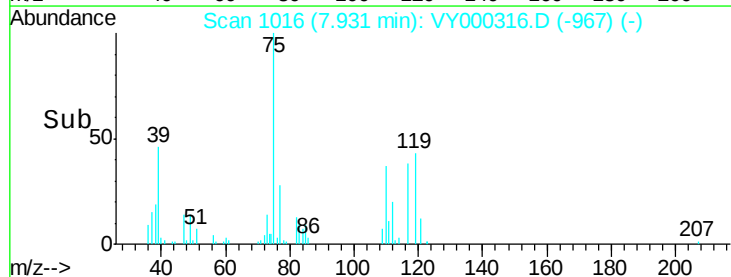
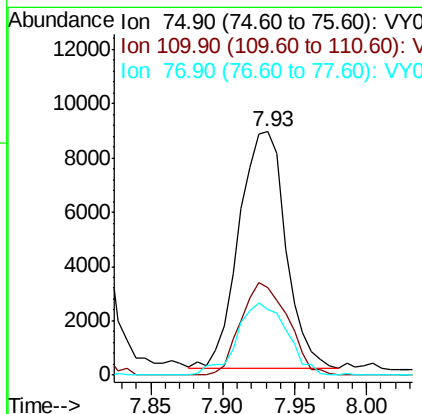
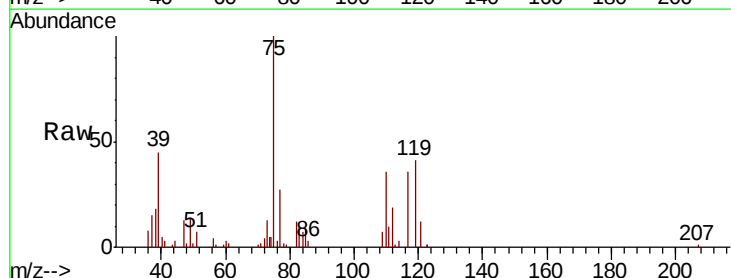
RT: 7.93 min Scan# 1016

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





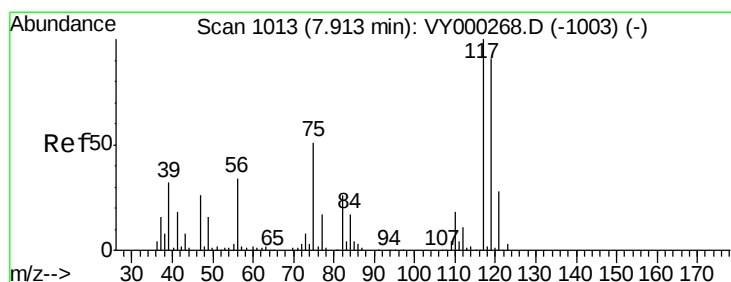
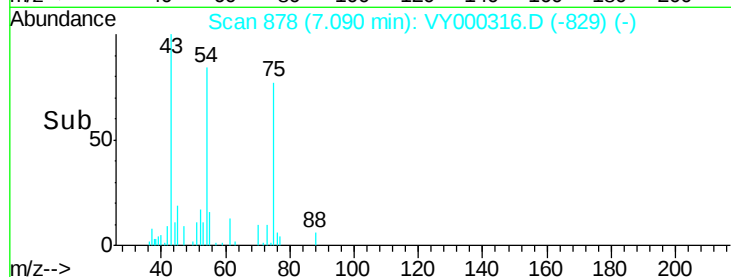
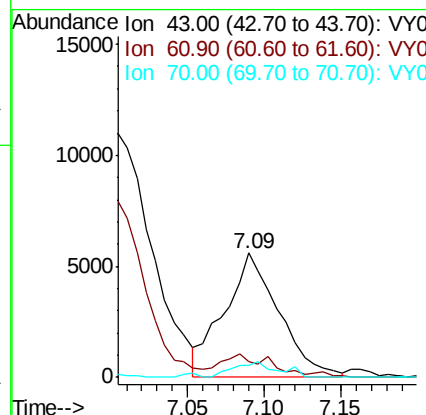
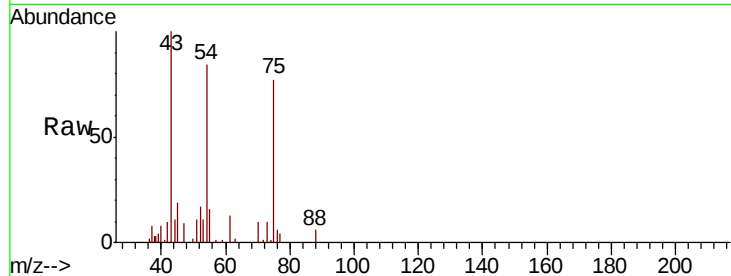
#37
Ethyl Acetate
Concen: 4.693 ug/l
RT: 7.09 min Scan# 878
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

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

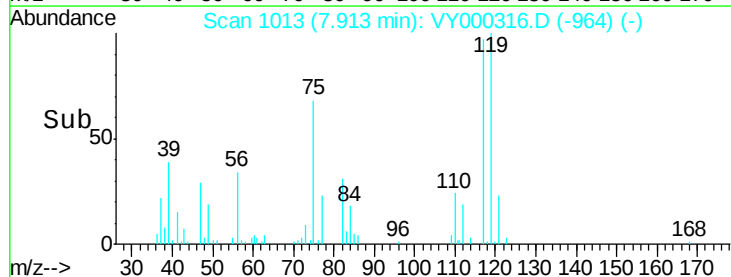
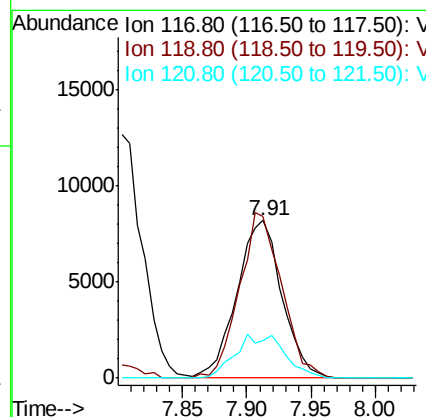
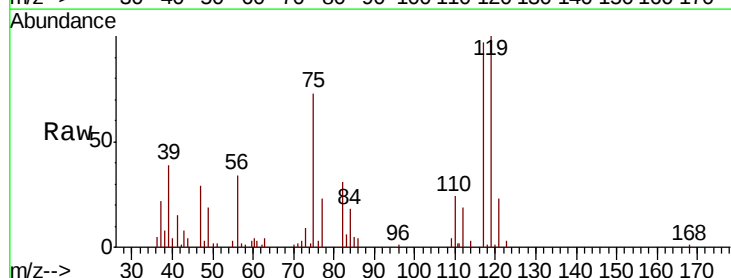
Manual Integrations
APPROVED

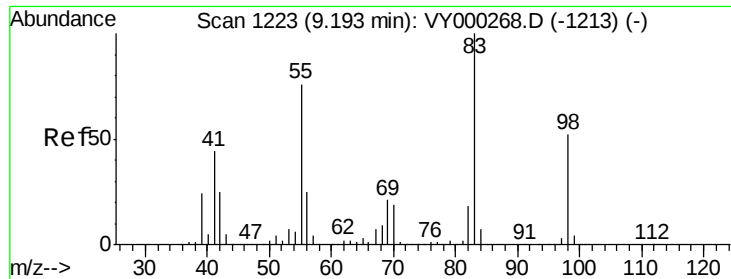
MMDadoda
10/18/2019 12:40:24 AM



#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	Ratio	Lower	Upper
117	100		
119	102.6	72.8	109.2
121	23.6	22.2	33.2





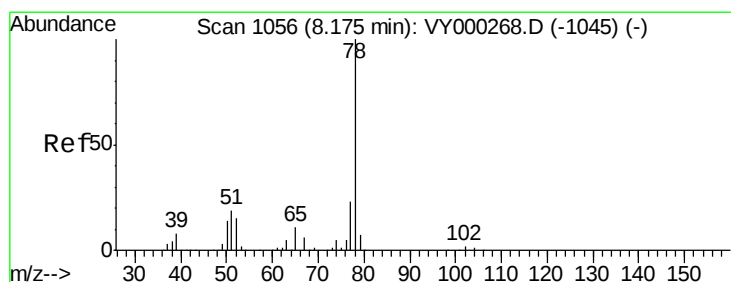
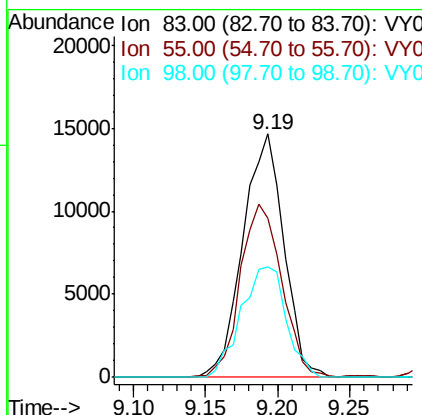
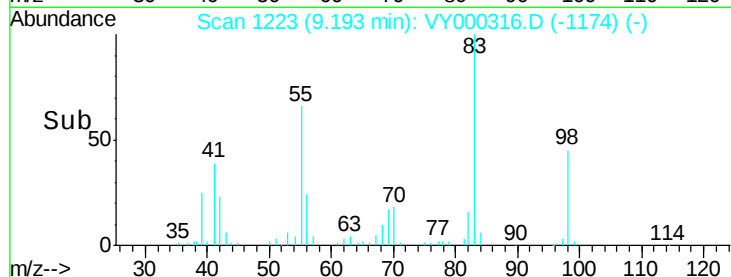
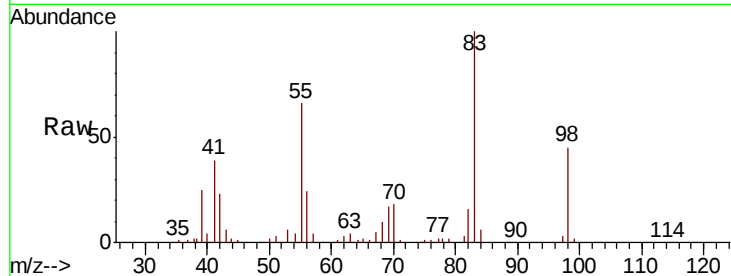
#39
Methvlcvclohexane
Concen: 4.393 ug/l
RT: 9.19 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

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

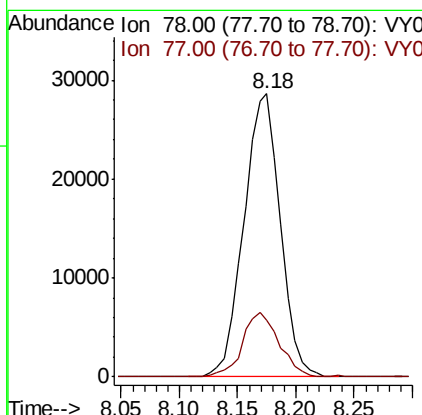
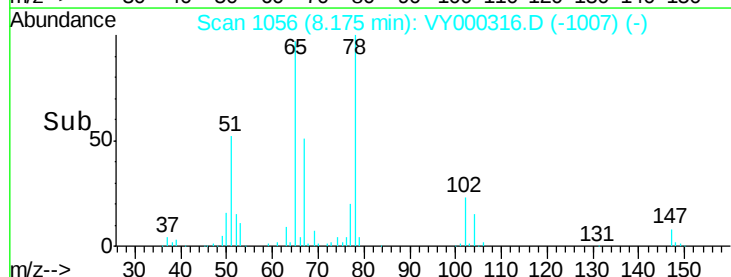
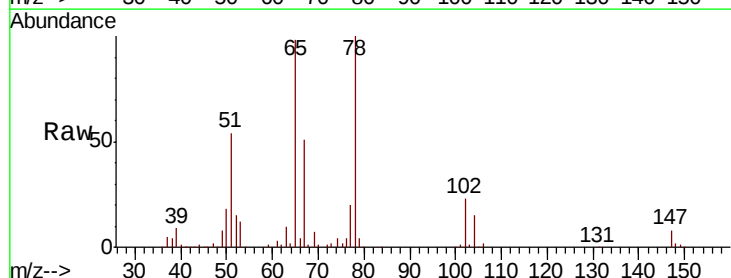
Manual Integrations
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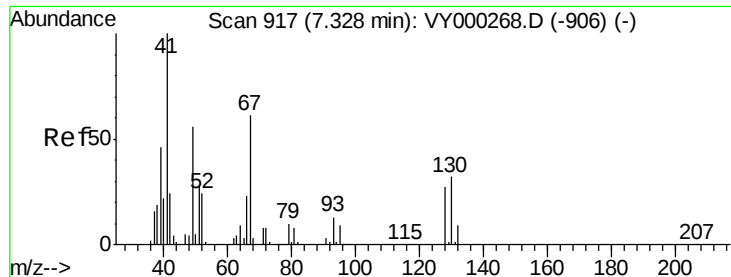
MMDadoda
10/18/2019 12:40:24 AM



#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	Ratio	Lower	Upper
78	100		
77	20.3	18.8	28.2





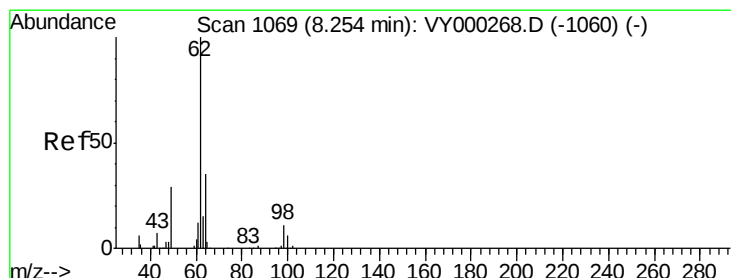
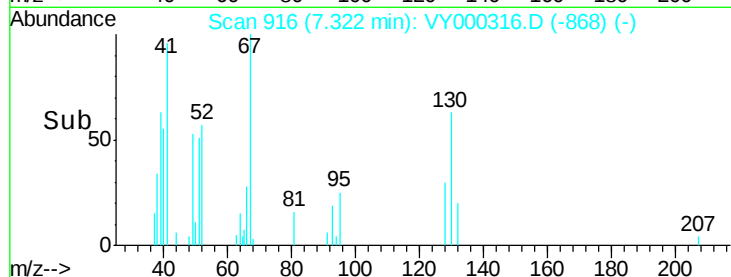
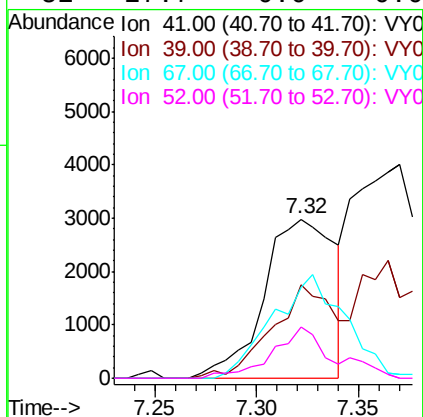
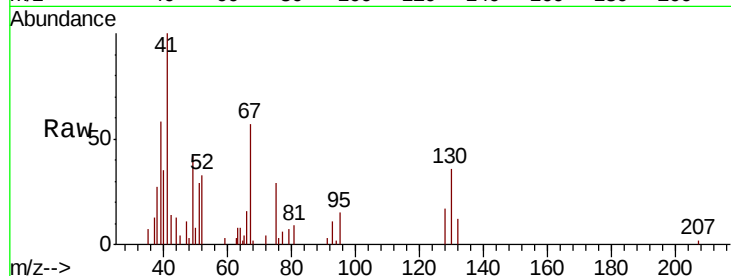
#41
Methacrylonitrile
Concen: 5.109 ug/l
RT: 7.32 min Scan# 916
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

Tot Ion	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#	

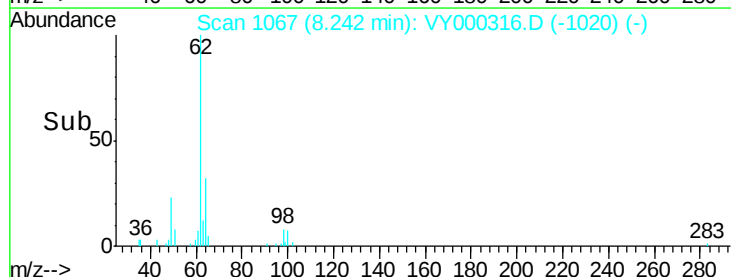
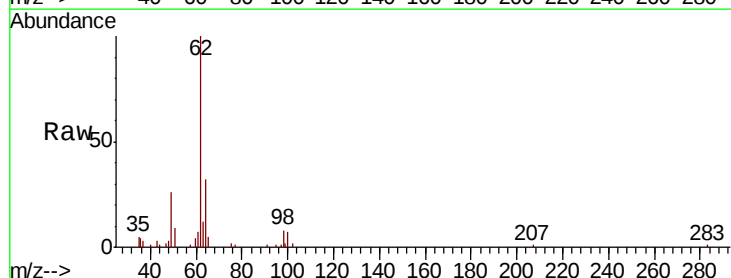
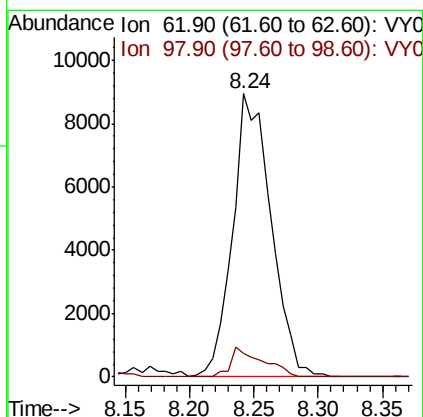
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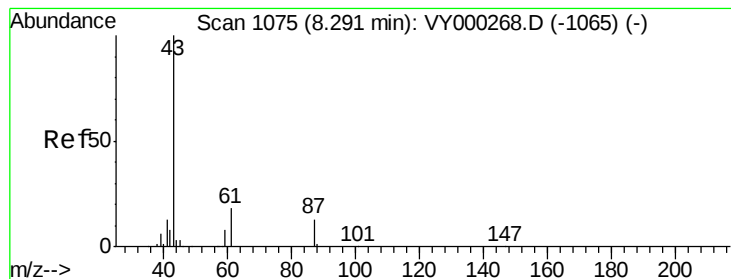
MMDadoda
10/18/2019 12:40:24 AM



#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	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

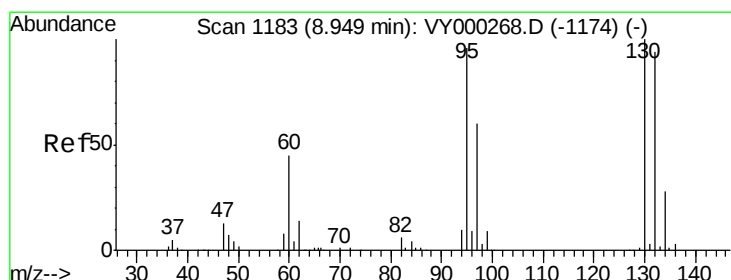
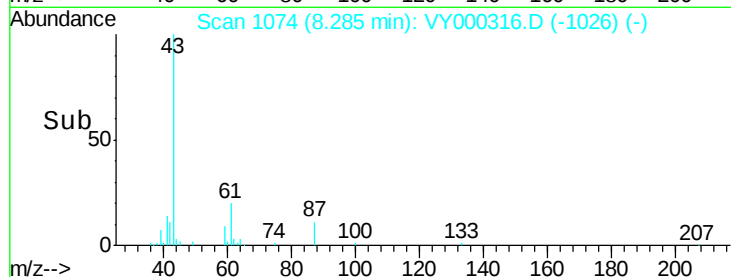
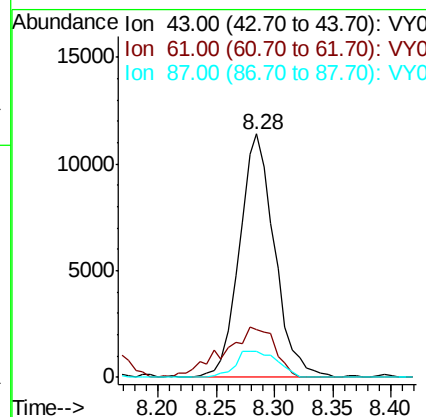
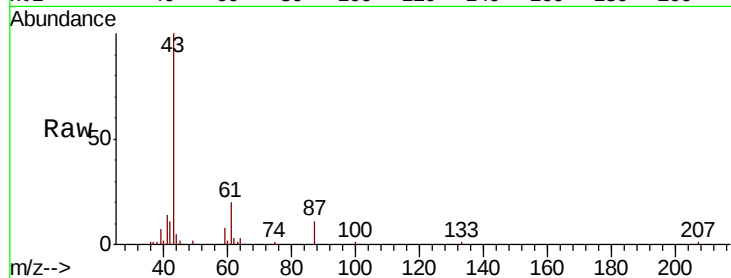
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

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

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#44

Trichloroethene

Concen: 4.256 ug/l

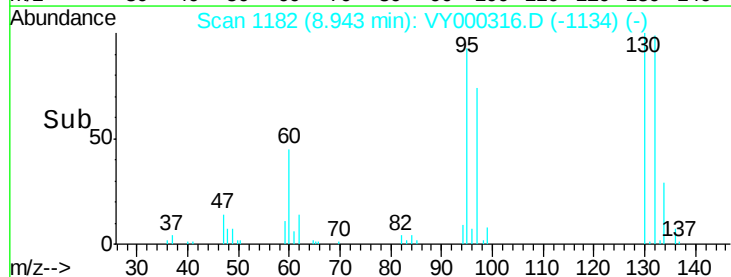
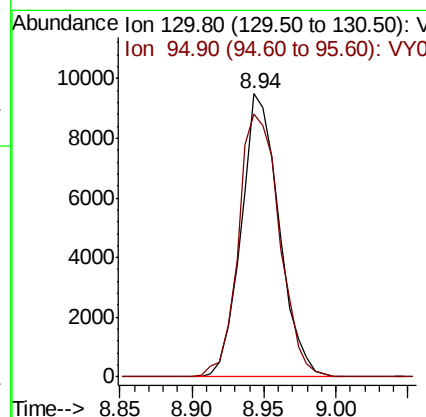
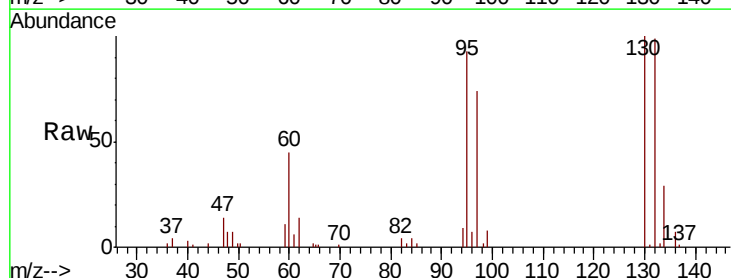
RT: 8.94 min Scan# 1182

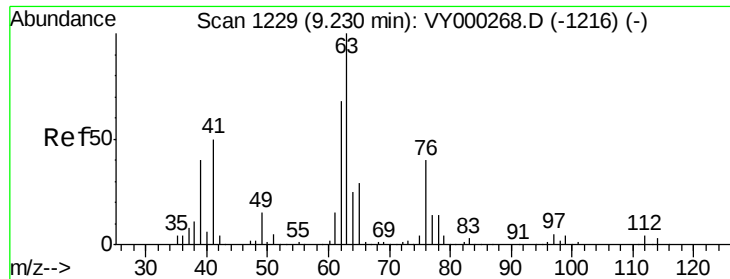
Delta R.T. -0.01 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

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





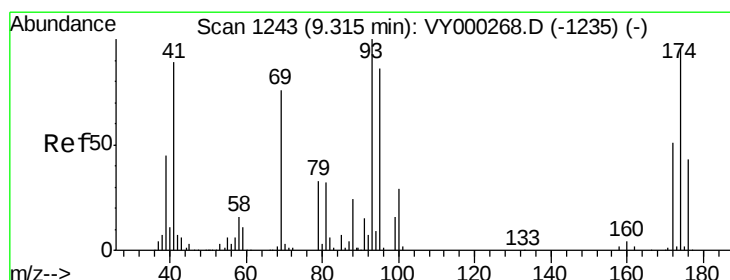
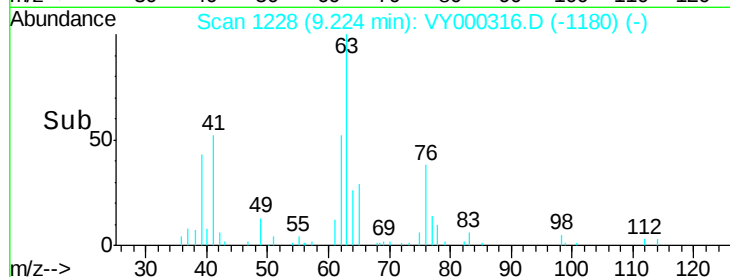
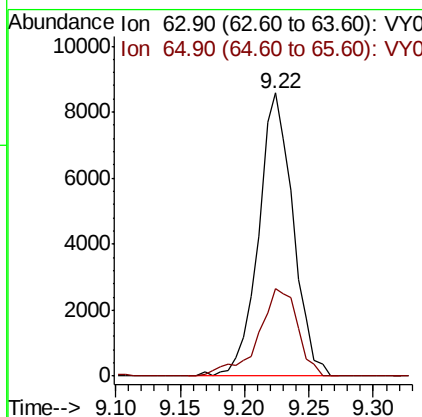
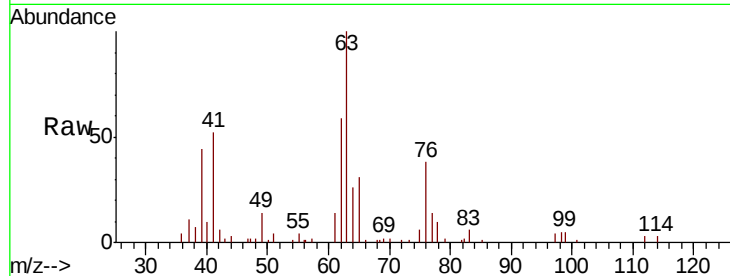
#45
 1,2-Dichloropropane
 Concen: 4.472 ug/l
 RT: 9.22 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	23.2	34.8

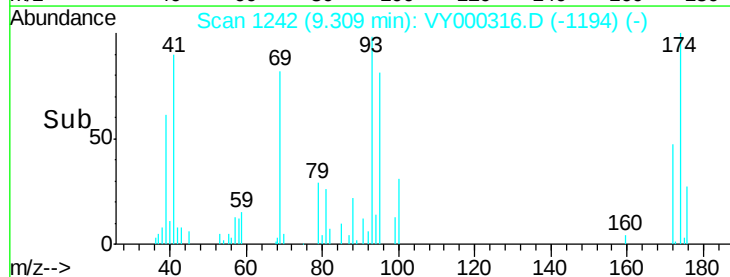
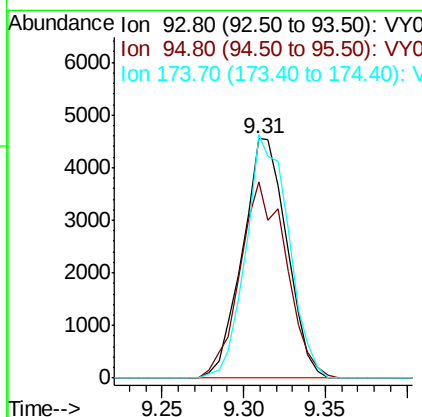
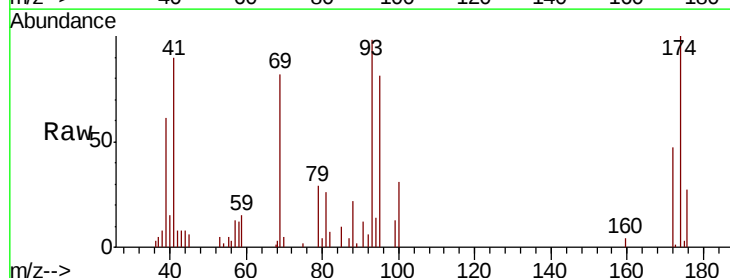
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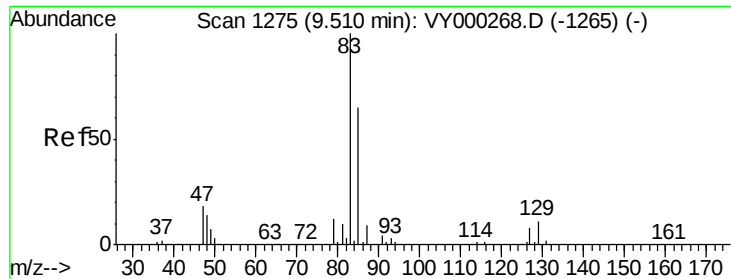
MMDadoda
 10/18/2019 12:40:24 AM



#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	Ratio	Lower	Upper
93	100		
95	85.2	68.2	102.2
174	97.6	79.8	119.6





#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

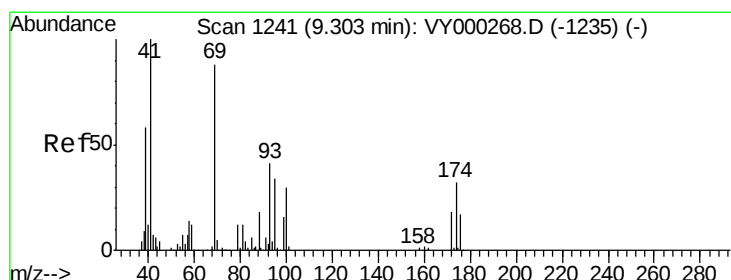
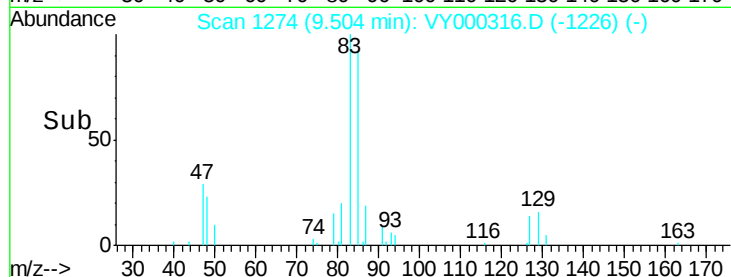
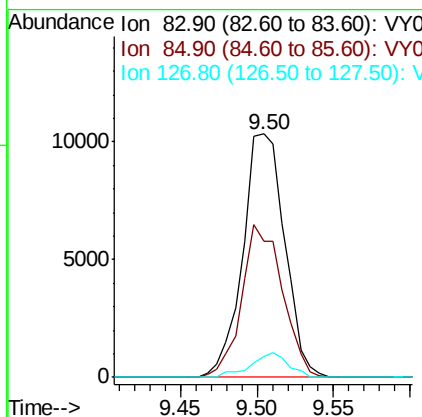
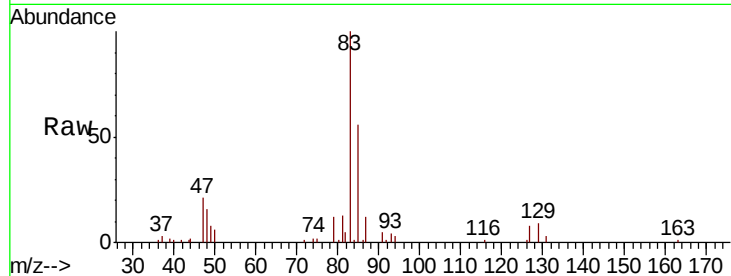
ClientSampleId :

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

Manual Integrations
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MMDadoda
10/18/2019 12:40:24 AM



#48

Methyl methacrylate

Concen: 3.843 ug/l

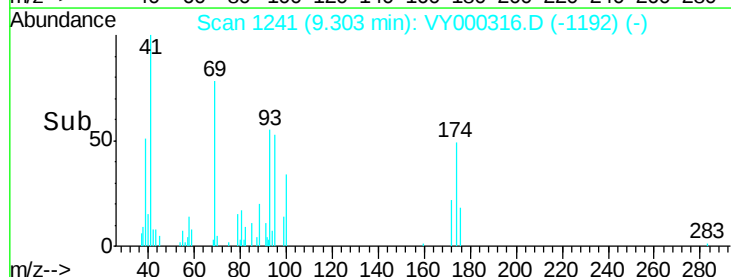
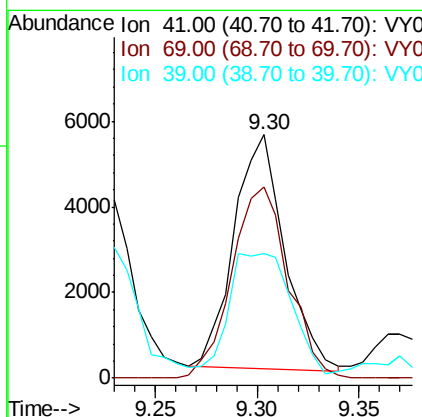
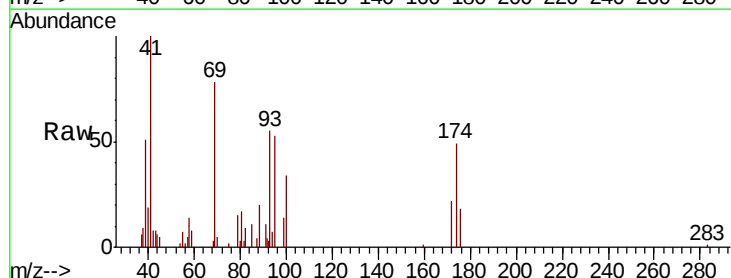
RT: 9.30 min Scan# 1241

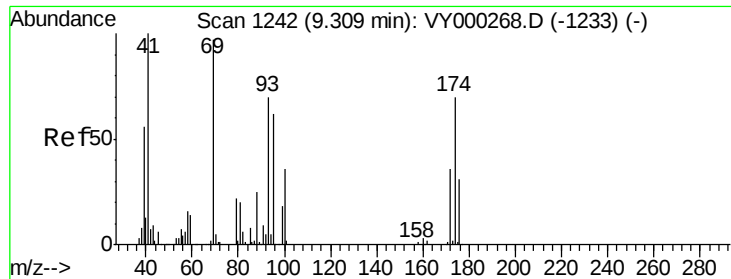
Delta R.T. -0.00 min

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





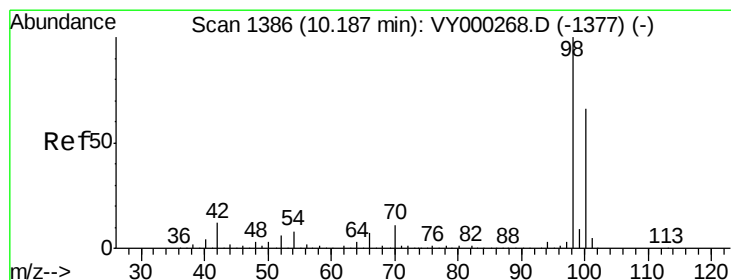
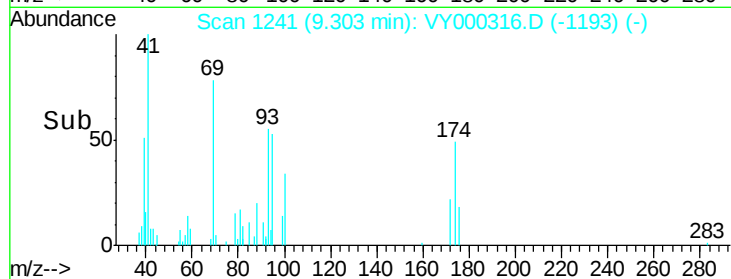
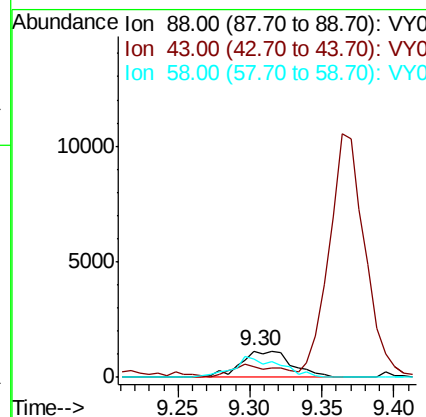
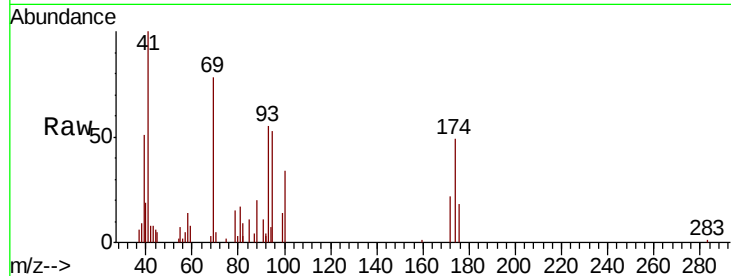
#49
1,4-Dioxane
Concen: 94.010 ug/l
RT: 9.30 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

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

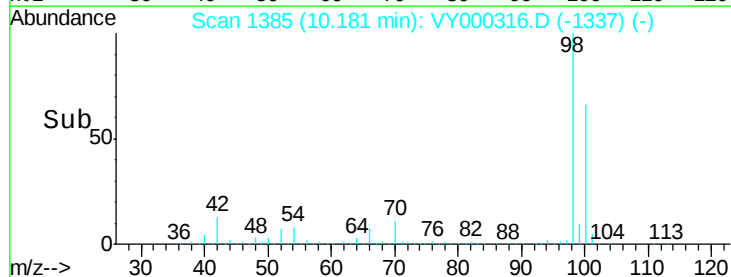
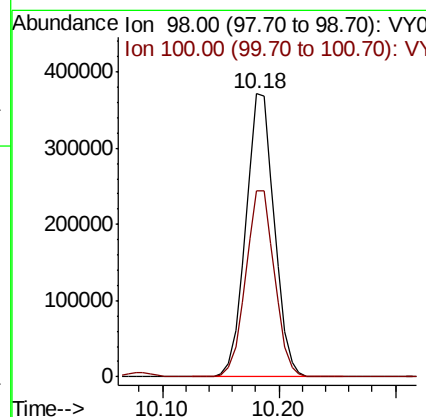
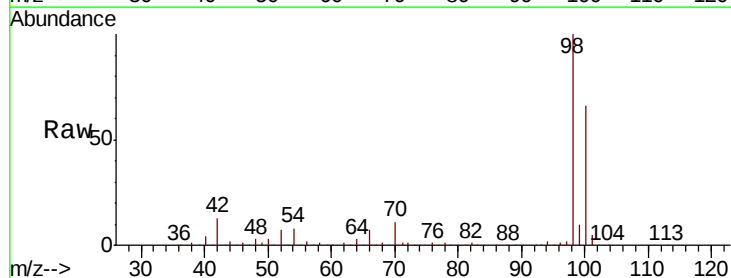
Manual Integrations
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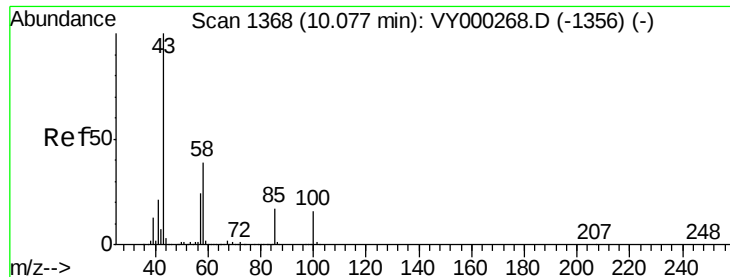
MMDadoda
10/18/2019 12:40:24 AM



#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	Ratio	Lower	Upper
98	100		
100	66.6	52.8	79.2





#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

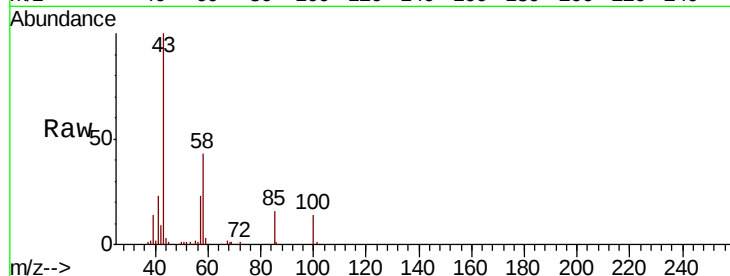
58 41.5 31.0 46.6

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

10.08

40000

30000

20000

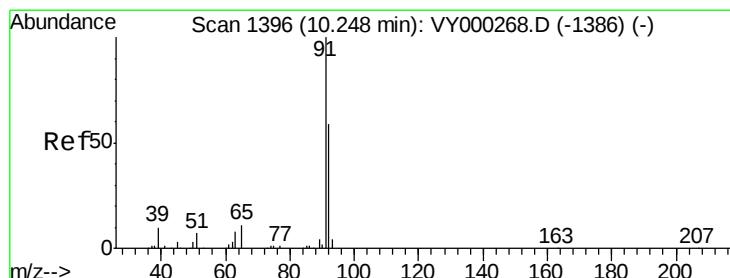
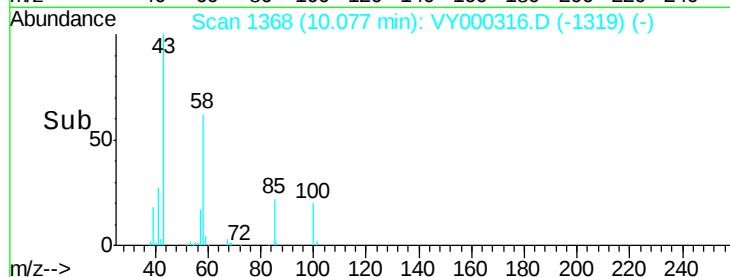
10000

0

Time-->

10.00

10.10



#52

Toluene

Concen: 4.349 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VY000316.D

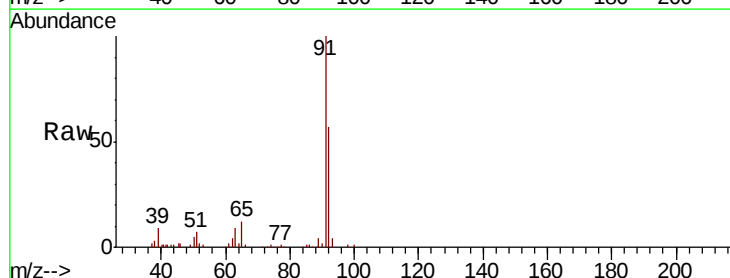
Acq: 15 Oct 2019 13:39

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): VY0

Ion 91.00 (90.70 to 91.70): VY0

10.25

40000

30000

20000

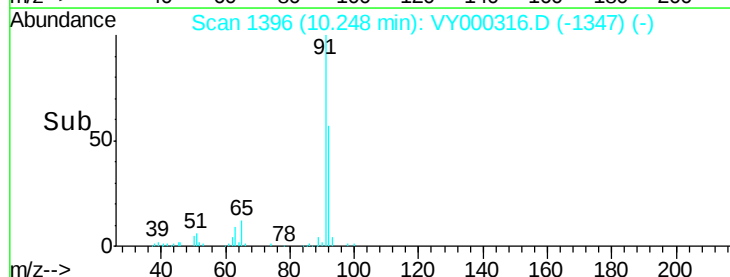
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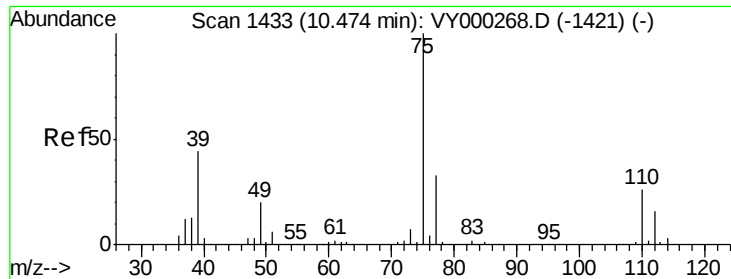
0

Time-->

10.20

10.30





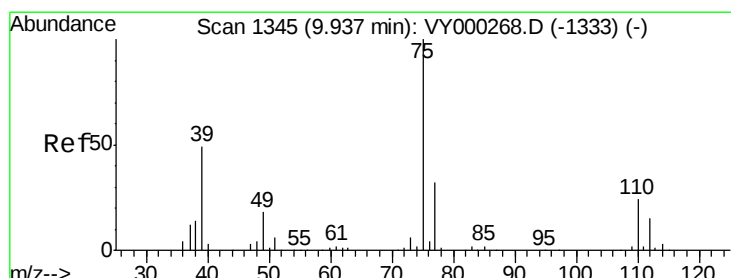
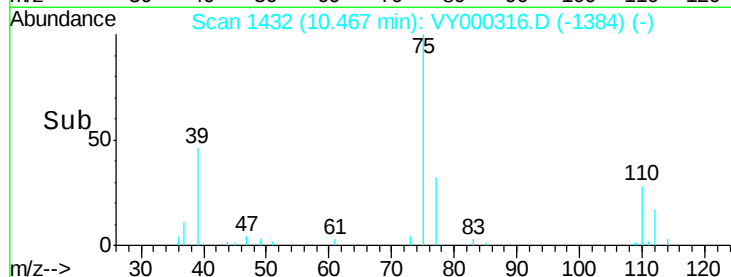
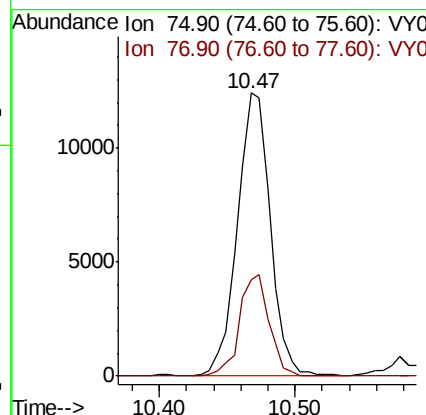
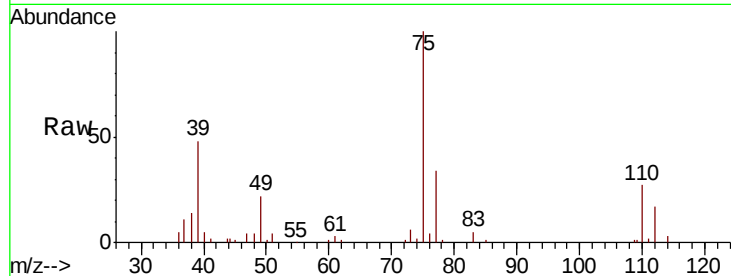
#53
 t-1,3-Dichloropropene
 Concen: 4.186 ug/l
 RT: 10.47 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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

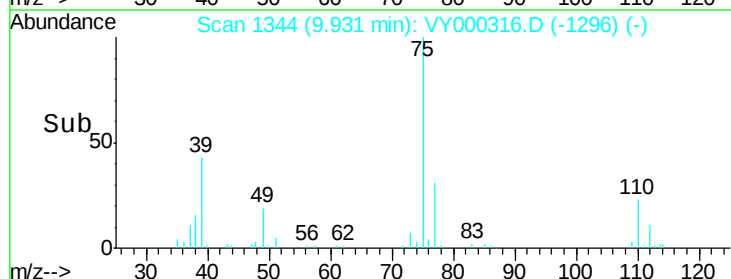
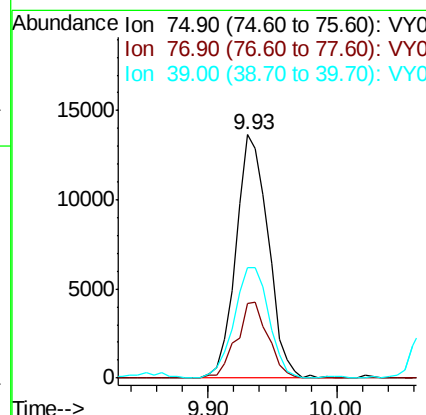
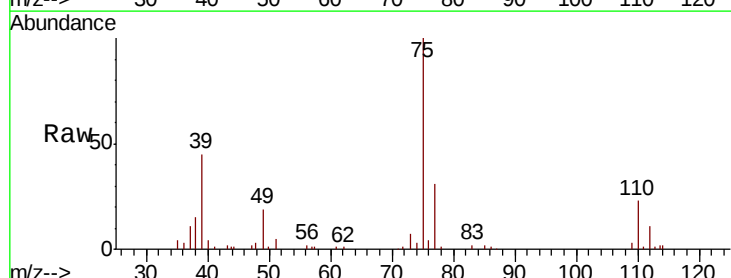
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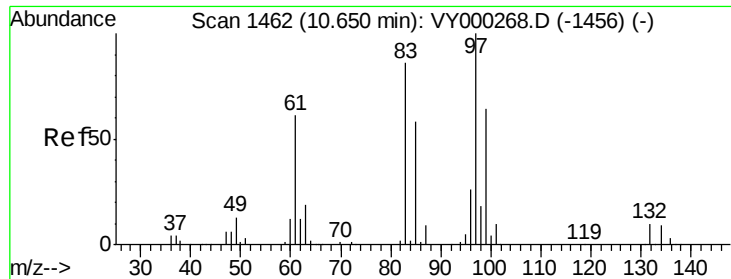
MMDadoda
 10/18/2019 12:40:24 AM



#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





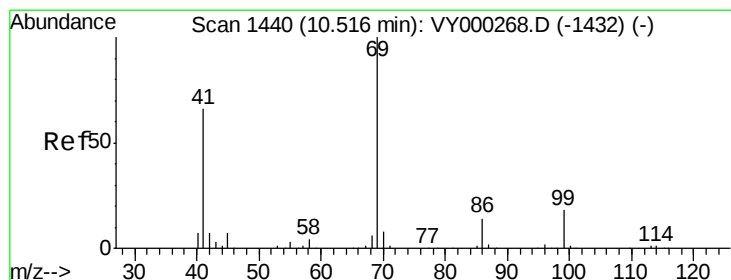
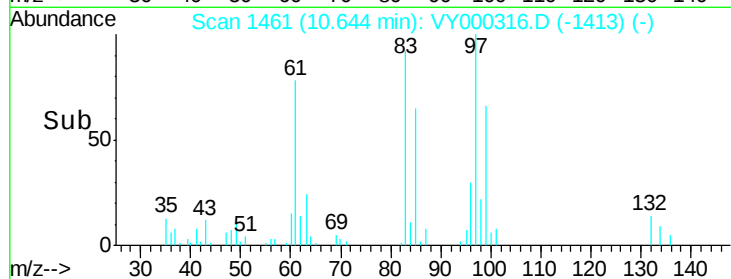
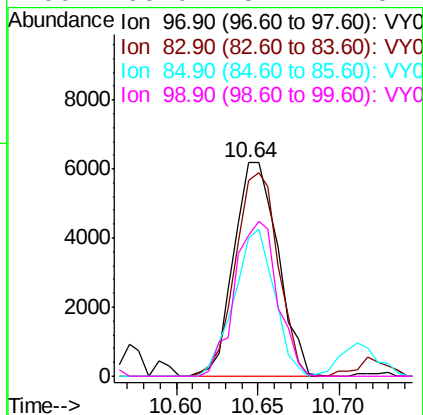
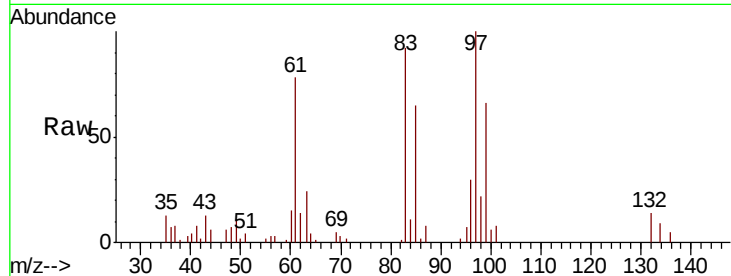
#55
1,1,2-Trichloroethane
Concen: 4.035 ug/l
RT: 10.64 min Scan# 1461
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

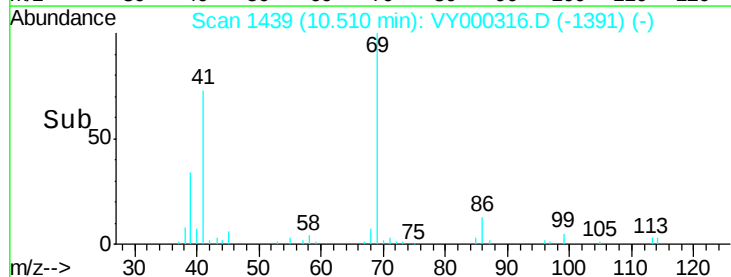
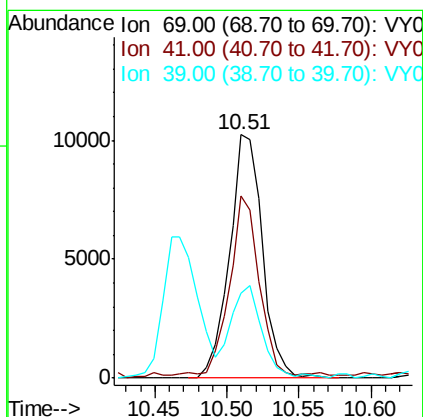
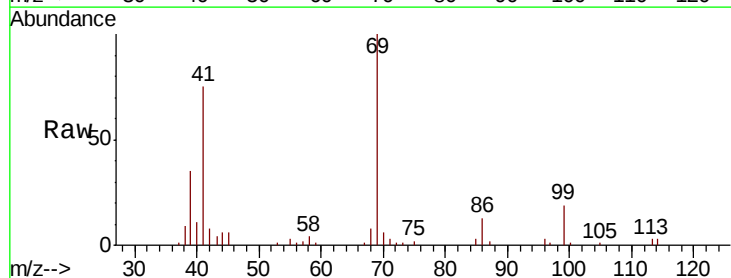
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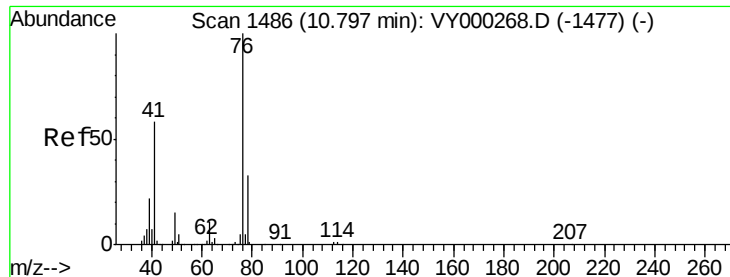
MMDadoda
10/18/2019 12:40:24 AM



#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





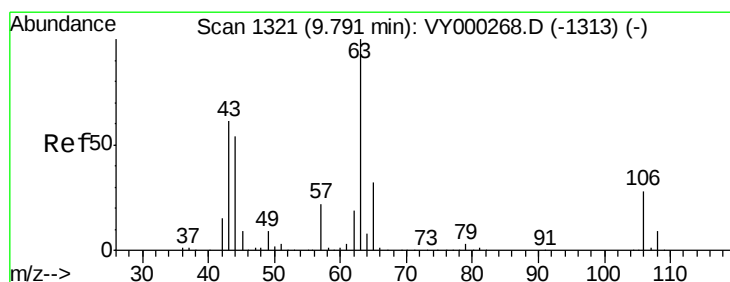
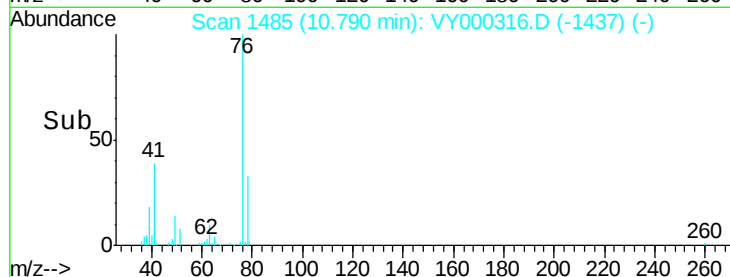
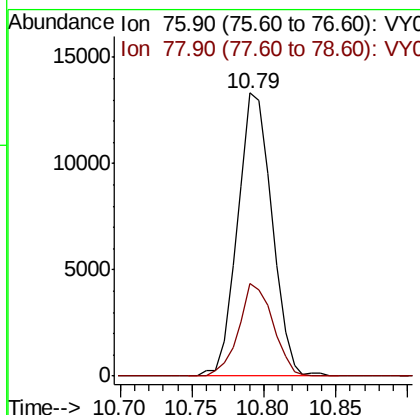
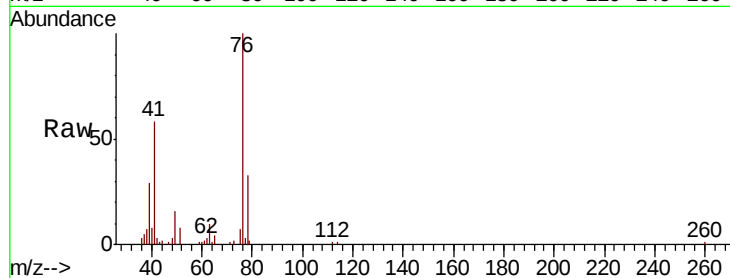
#57
 1,3-Dichloropropane
 Concen: 4.447 ug/l
 RT: 10.79 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.2

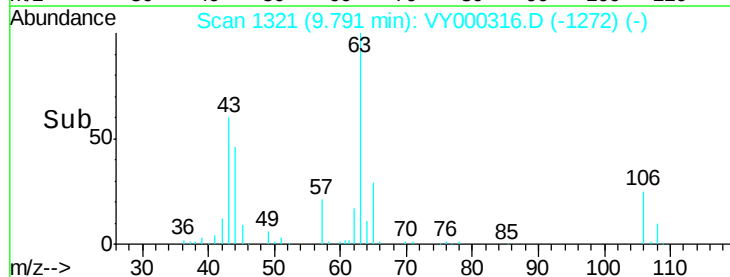
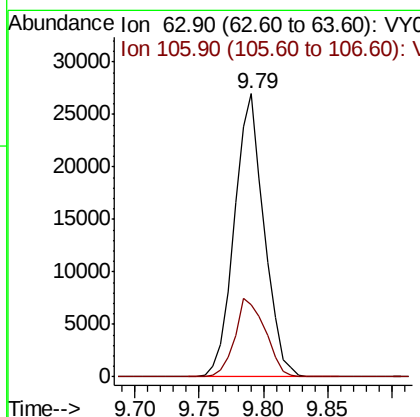
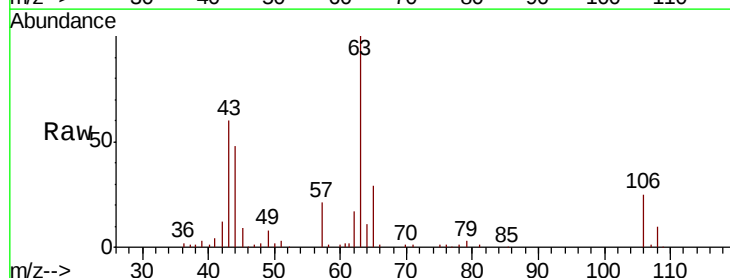
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MMDadoda
 10/18/2019 12:40:24 AM



#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	Ratio	Lower	Upper
63	100		
106	28.4	23.0	34.4





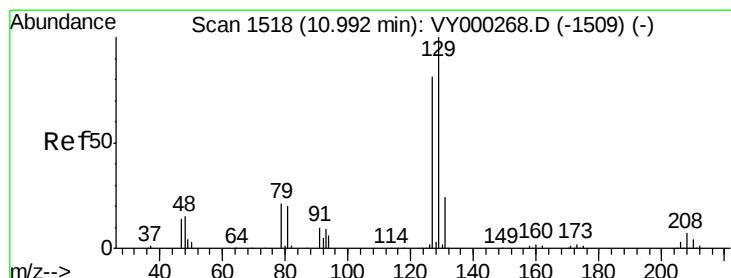
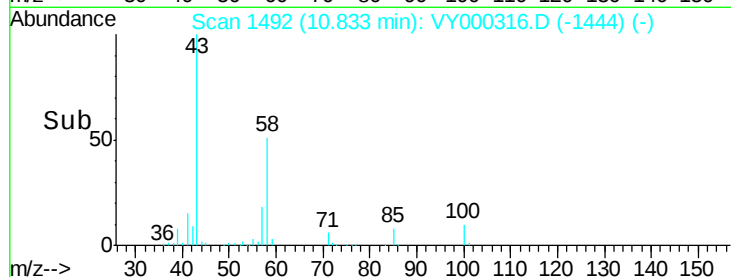
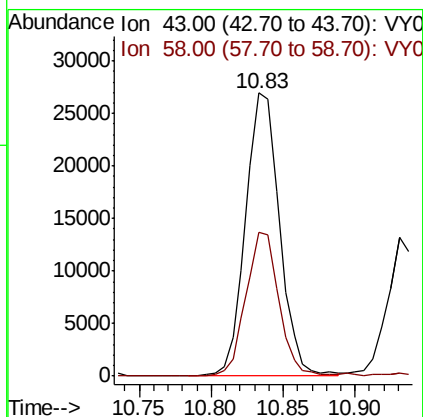
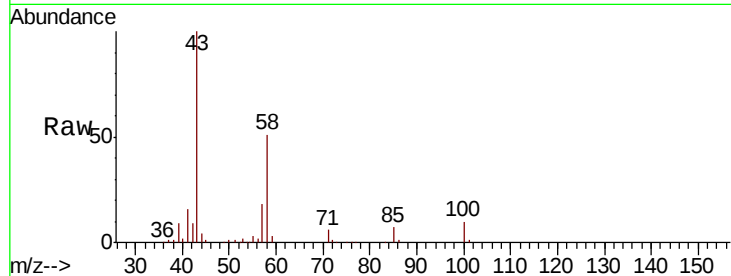
#59
2-Hexanone
Concen: 21.393 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

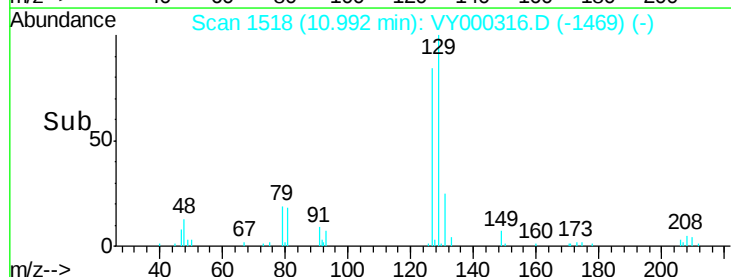
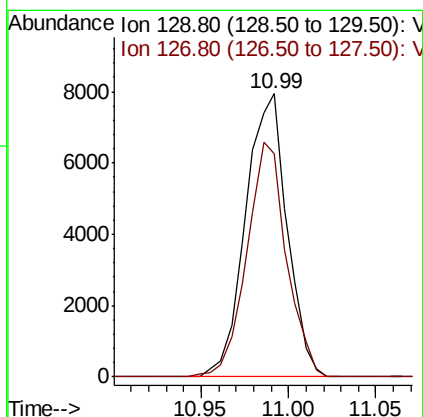
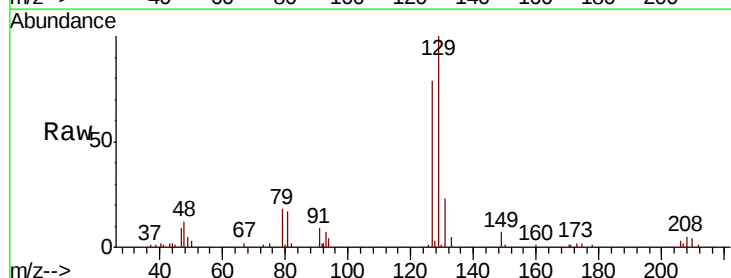
Manual Integrations
APPROVED

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#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





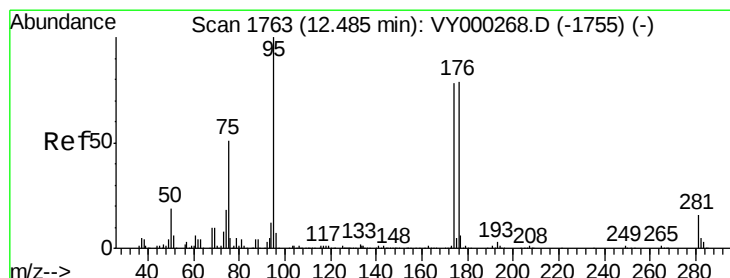
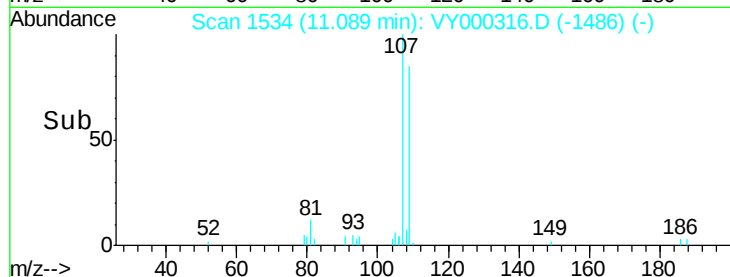
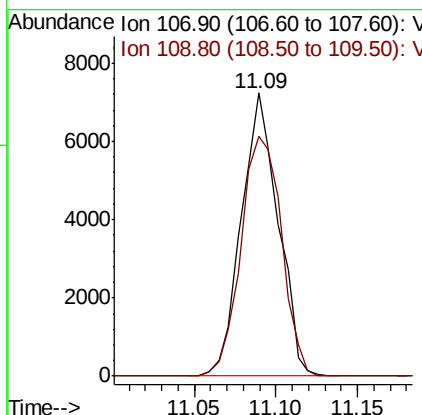
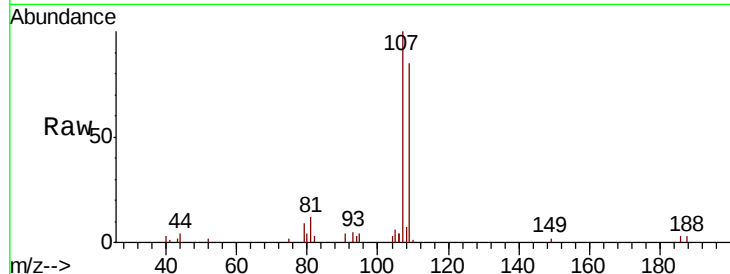
#61
 1,2-Dibromoethane
 Concen: 4.108 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.1	112.7

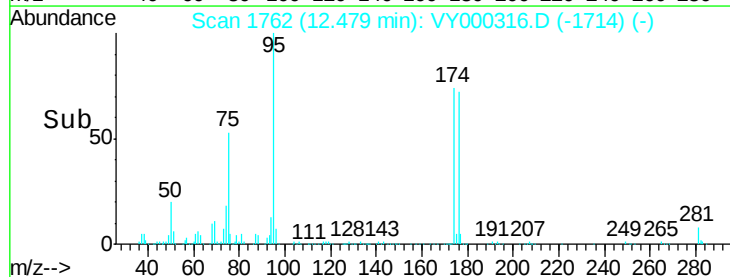
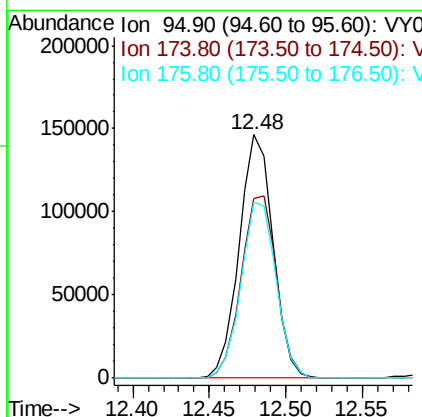
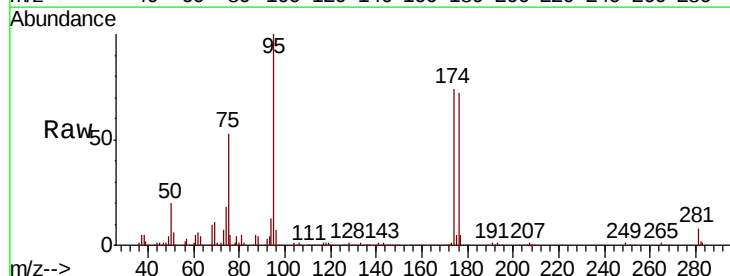
Manual Integrations
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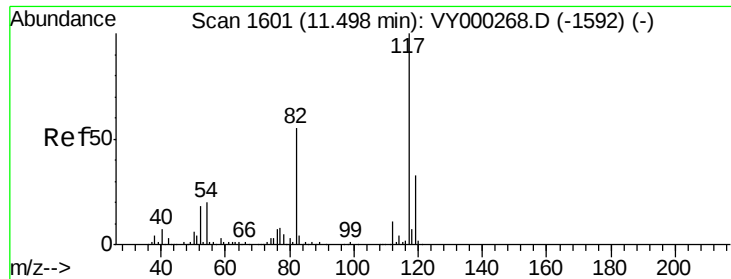
MMDadoda
 10/18/2019 12:40:24 AM



#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	Ratio	Lower	Upper
95	100		
174	78.3	0.0	159.6
176	74.8	0.0	153.8





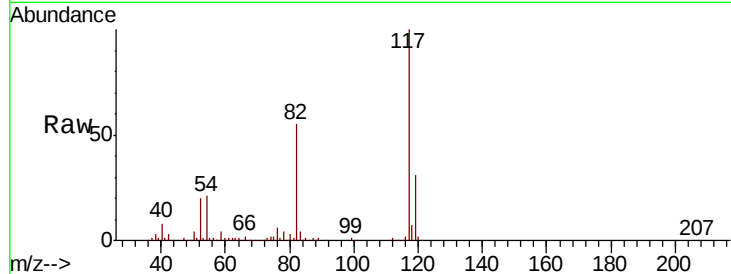
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

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

Manual Integrations
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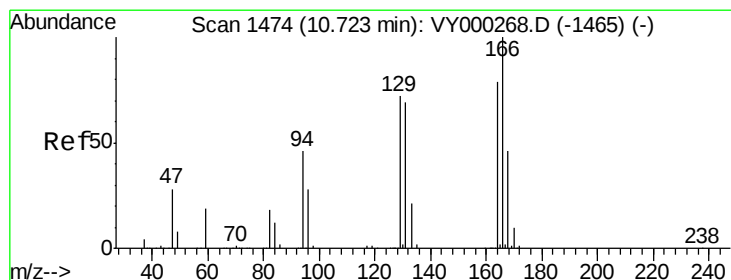
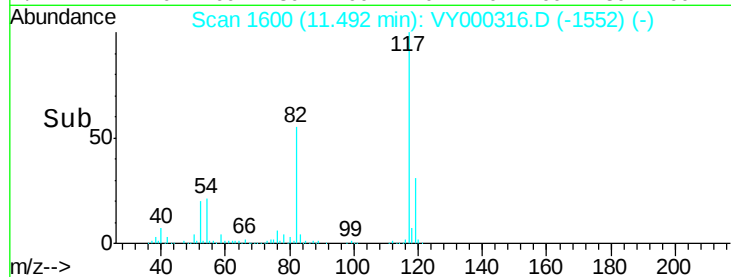
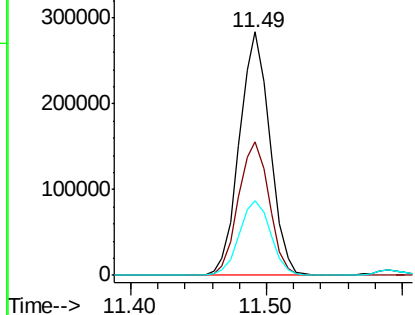


Abundance

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

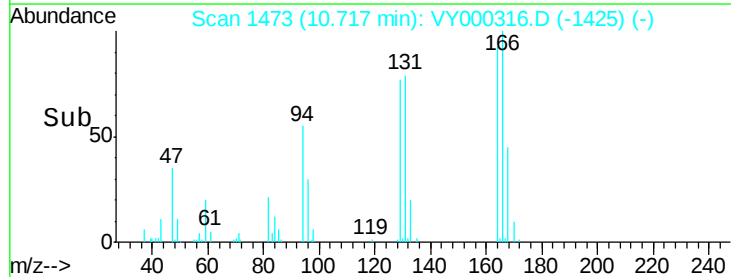
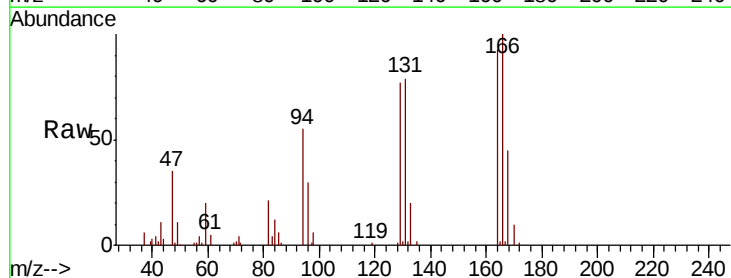
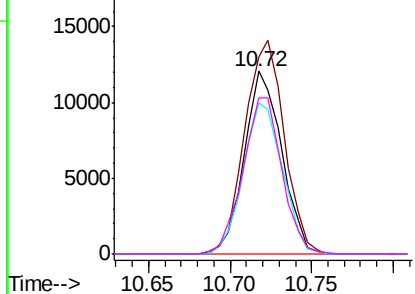
Abundance

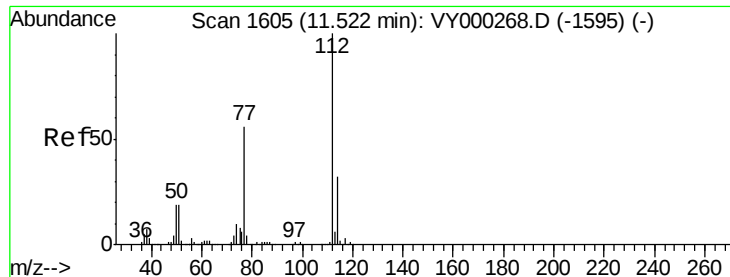
Ion 163.80 (163.50 to 164.50): V

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





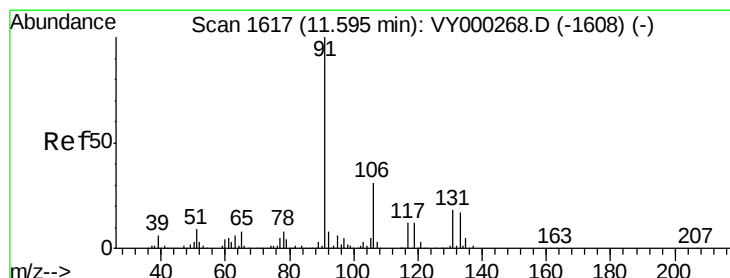
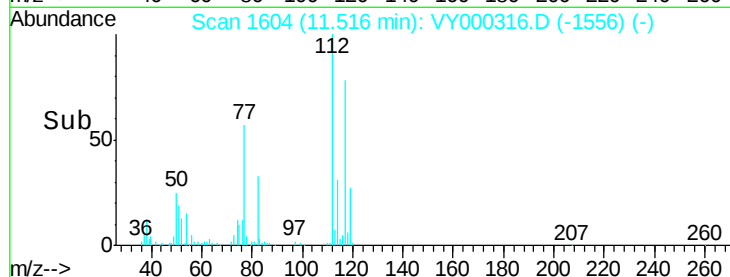
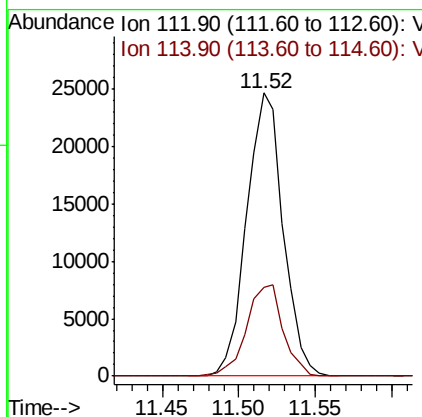
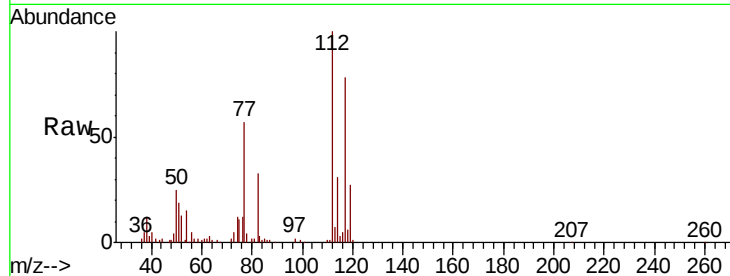
#65
Chlorobenzene
Concen: 4.353 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

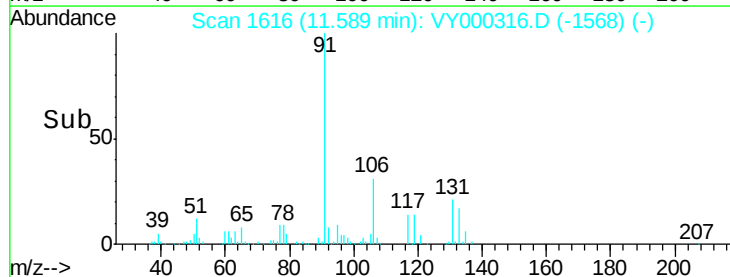
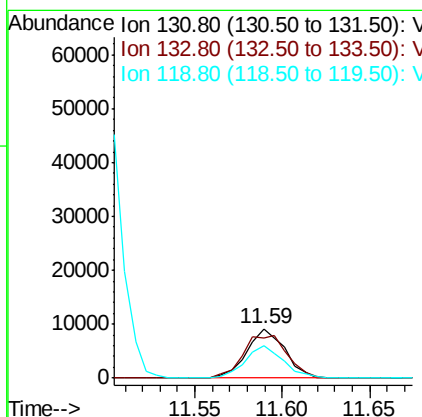
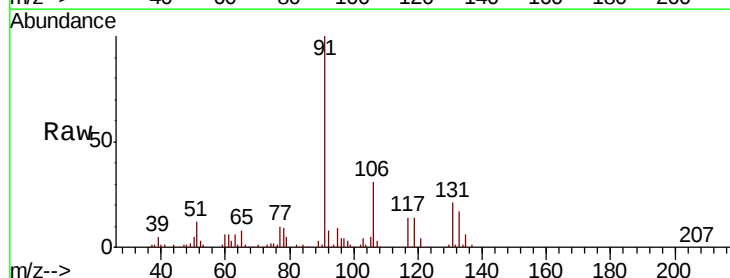
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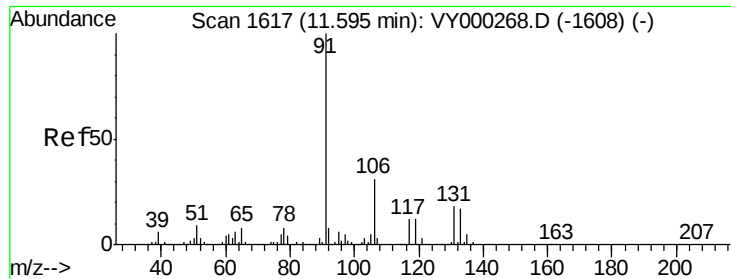
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.245 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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





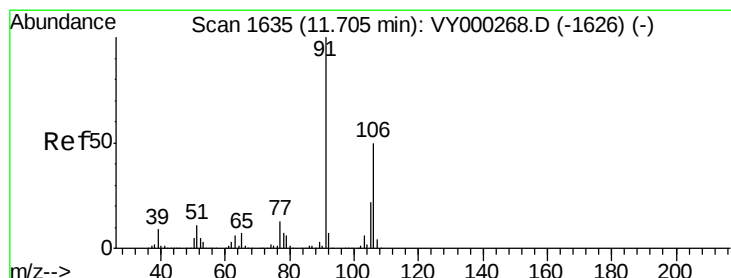
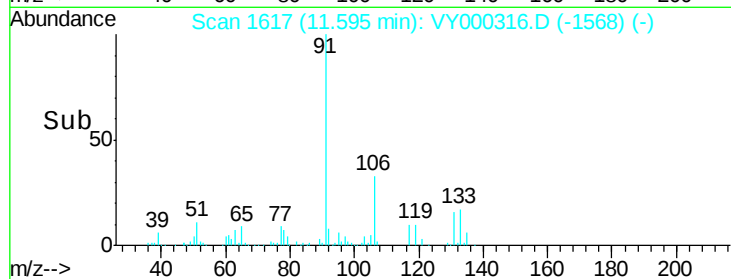
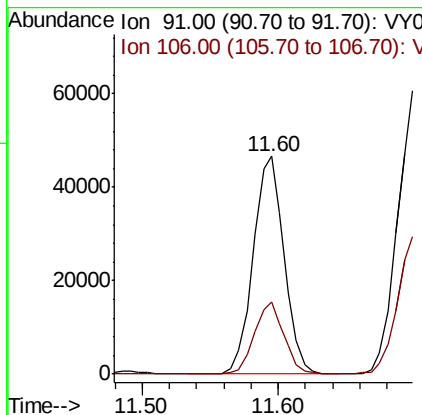
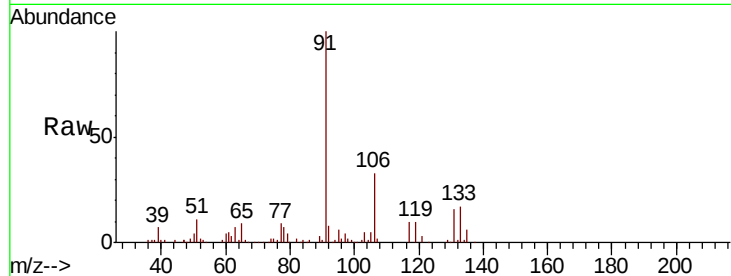
#67
Ethyl Benzene
Concen: 4.254 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

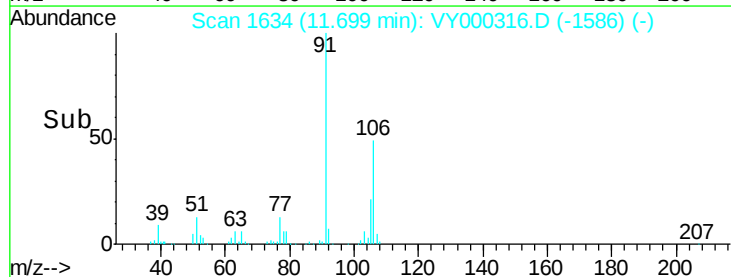
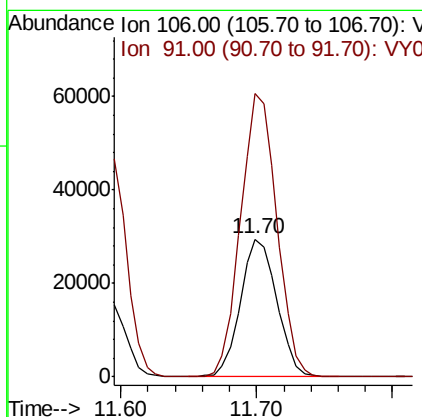
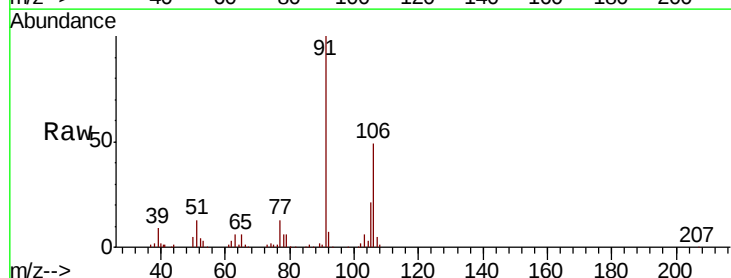
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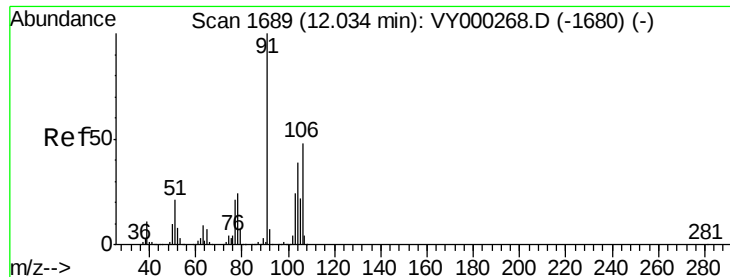
MMDadoda
10/18/2019 12:40:24 AM



#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





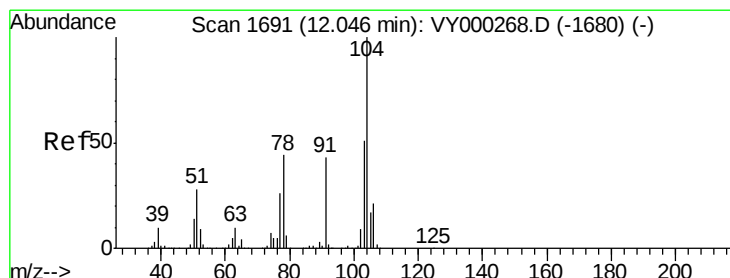
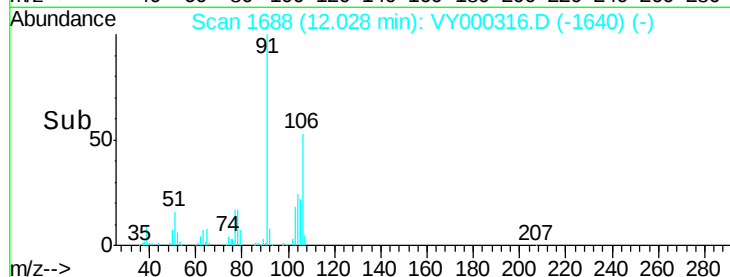
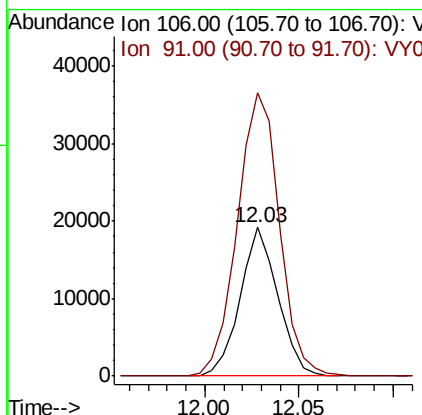
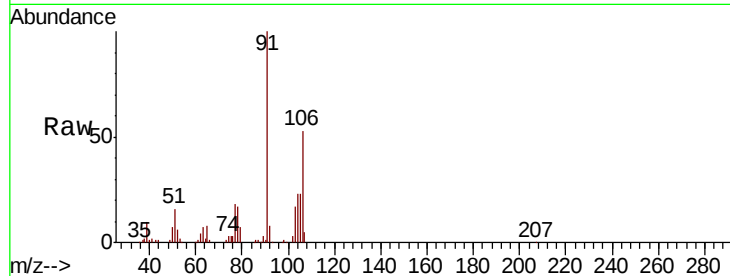
#69
o-Xylene
Concen: 4.179 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

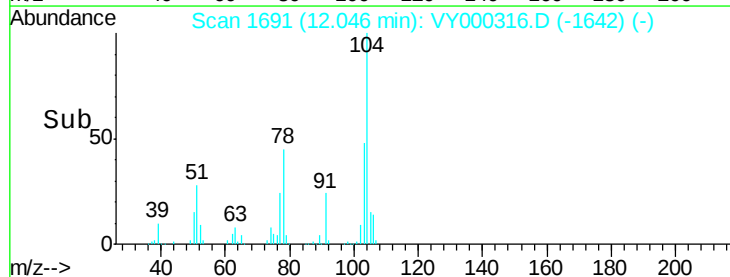
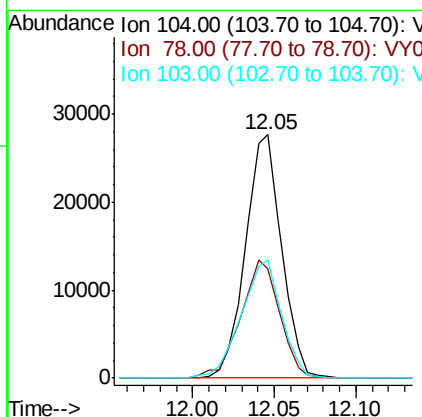
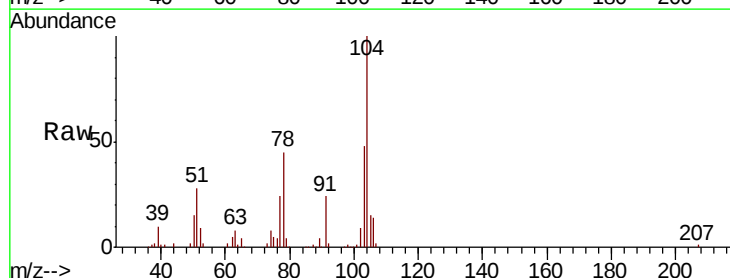
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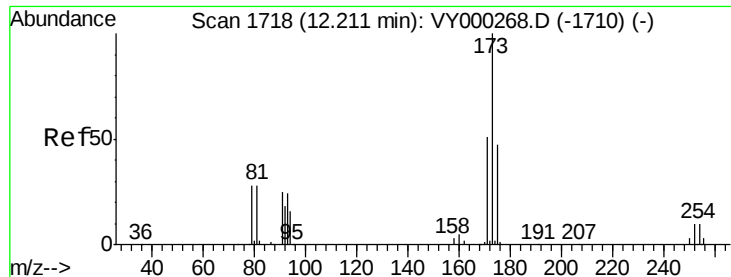
MMDadoda
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#70
Styrene
Concen: 4.005 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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





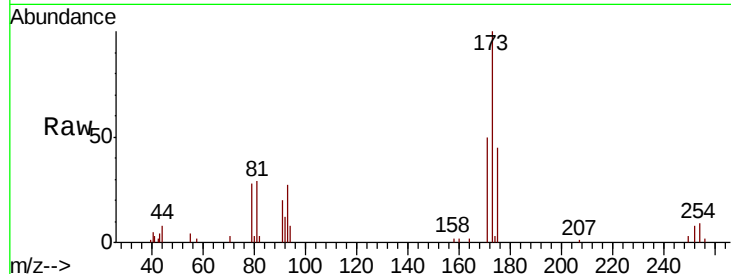
#71
Bromoform
Concen: 4.125 ug/l
RT: 12.21 min Scan# 1718
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

Tot Ion	Ratio	Lower	Upper
173	100		
175	53.0	24.6	73.6
254	0.0	0.1	0.1#

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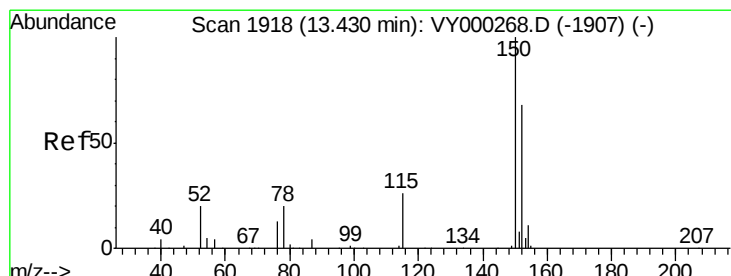
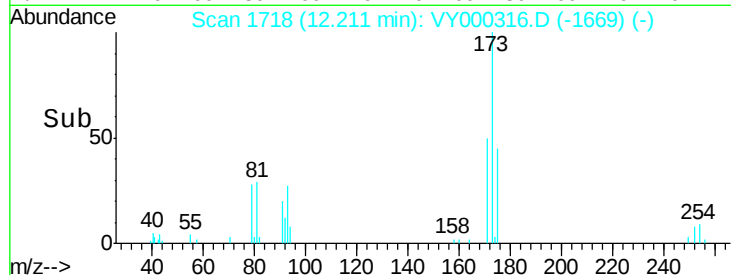
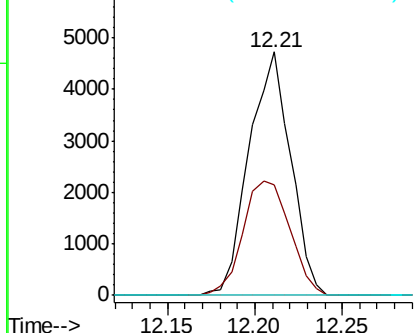


Abundance

Ion 172.70 (172.40 to 173.40): V

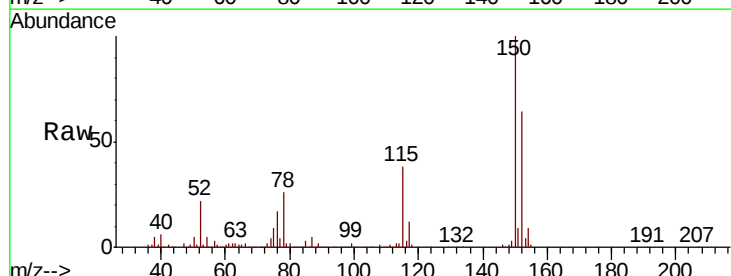
Ion 174.70 (174.40 to 175.40): V

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	Ratio	Lower	Upper
152	100		
115	60.8	29.3	88.0
150	160.6	0.0	348.4

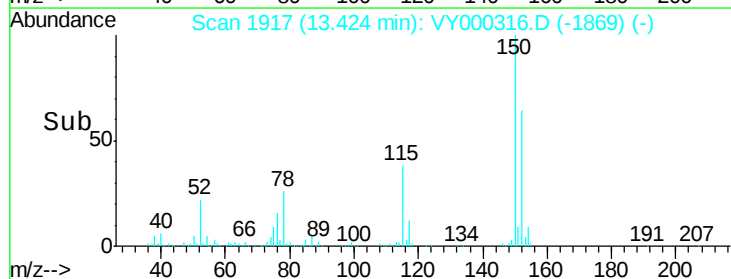
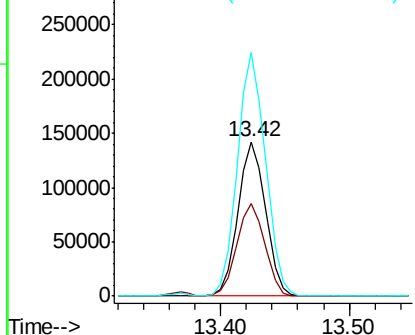


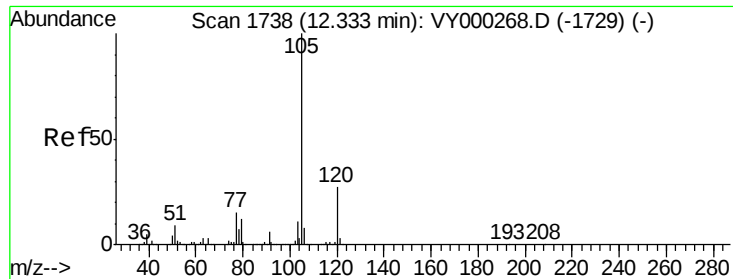
Abundance

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

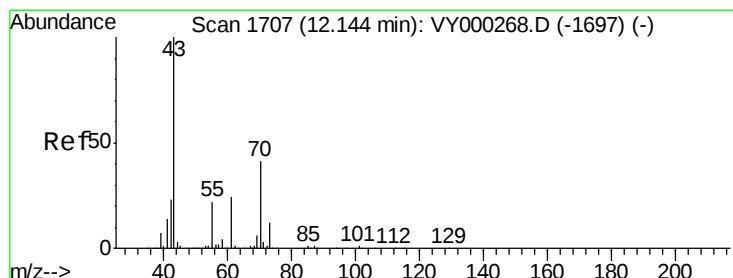
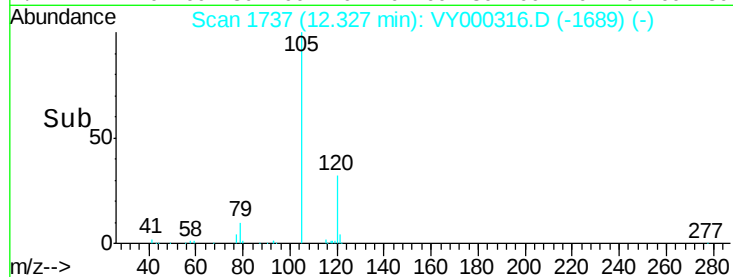
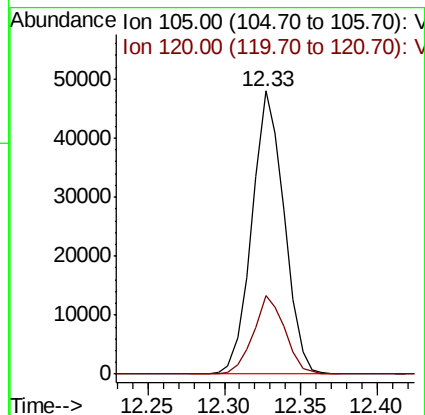
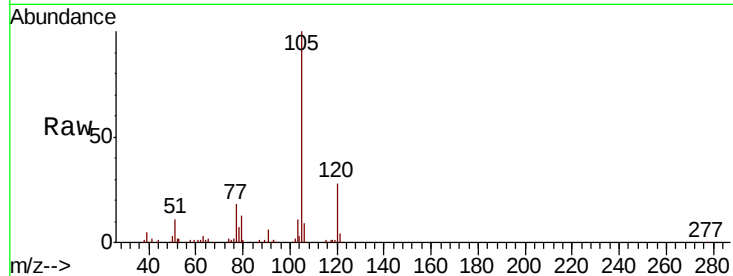
120 27.0 13.4 40.2

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#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

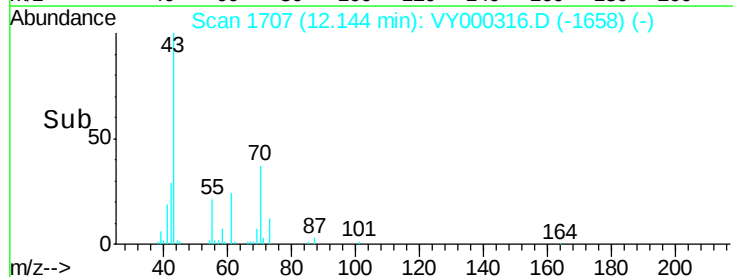
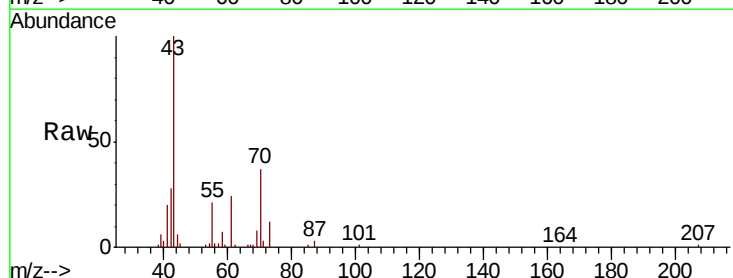
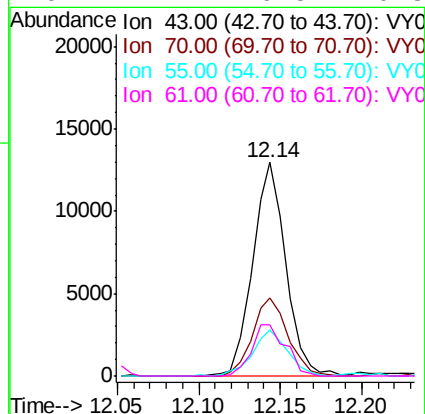
Ion Ratio Lower Upper

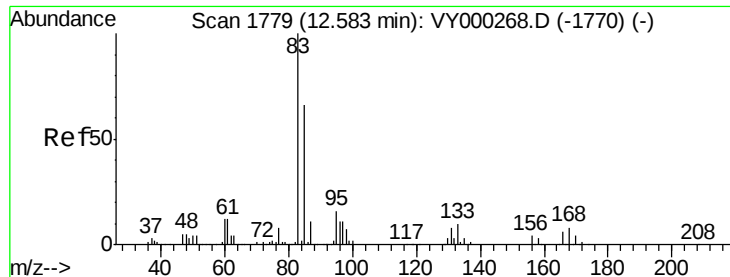
43 100

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

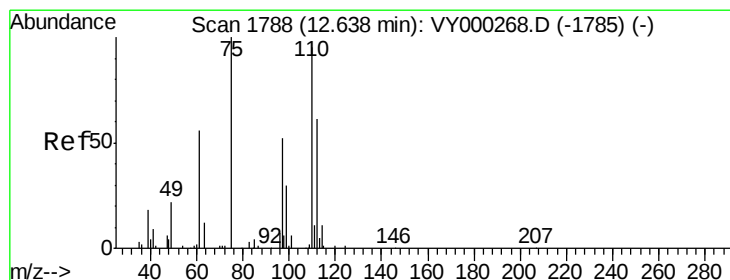
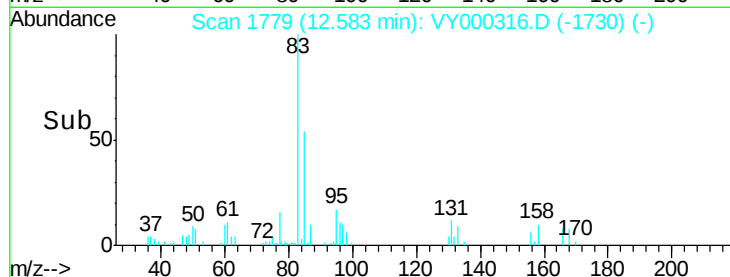
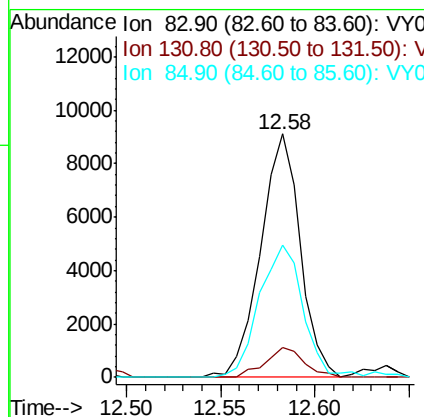
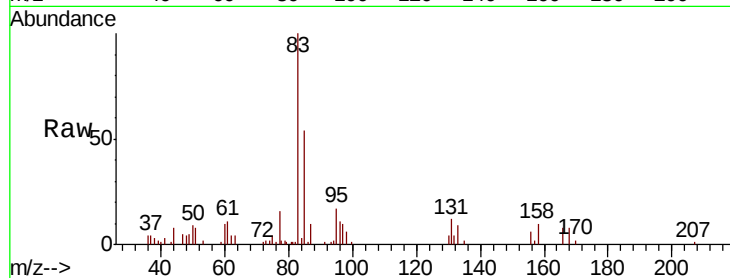
ClientSampleId :

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

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 4.193 ug/l m

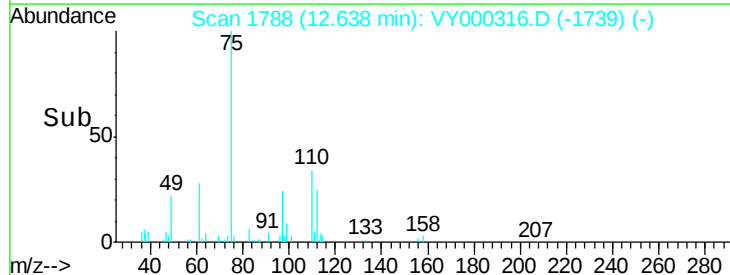
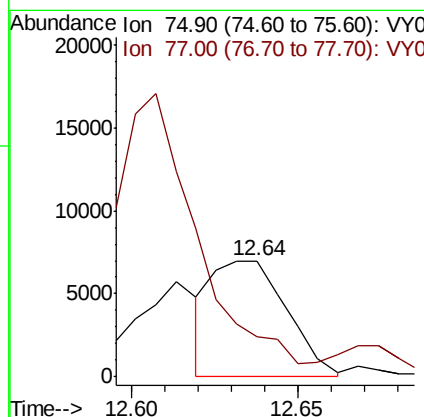
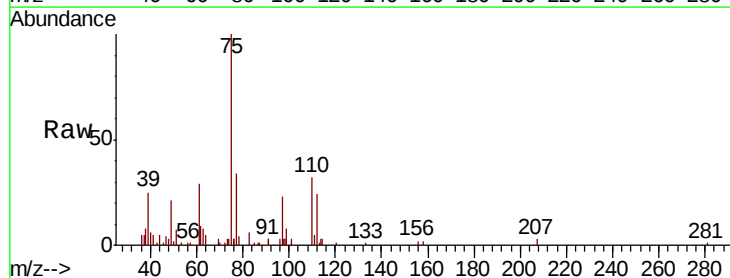
RT: 12.64 min Scan# 1788

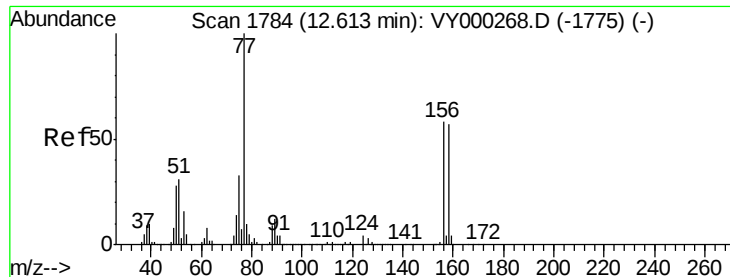
Delta R.T. -0.00 min

Lab File: VY000316.D

Acq: 15 Oct 2019 13:39

Tgt Ion:	75	Resp:	10855
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

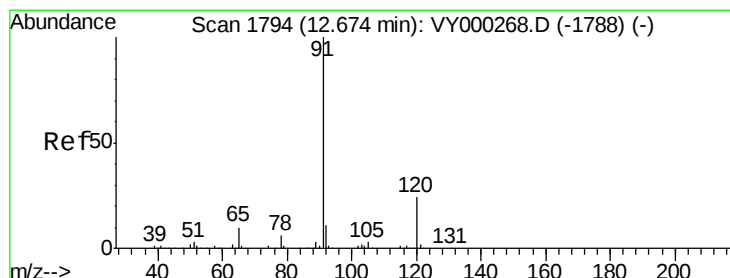
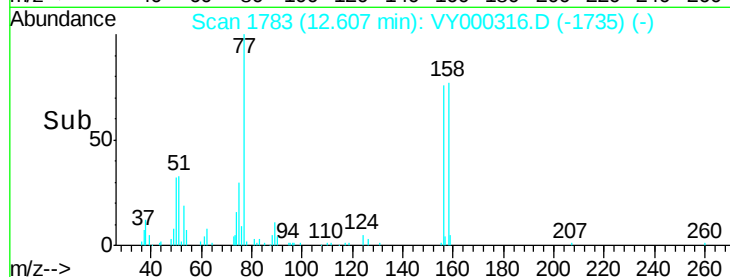
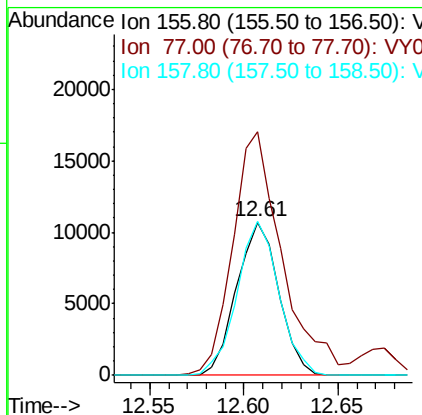
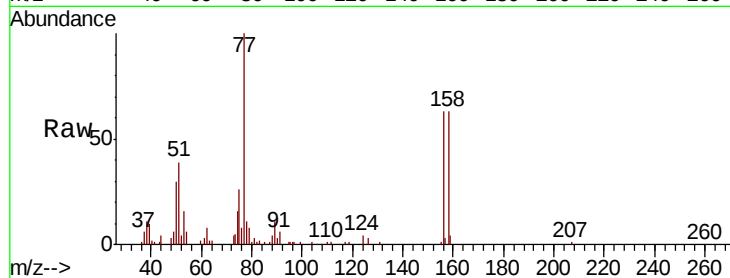
ClientSampleId :

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

Manual Integrations
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#78

n-propylbenzene

Concen: 4.278 ug/l

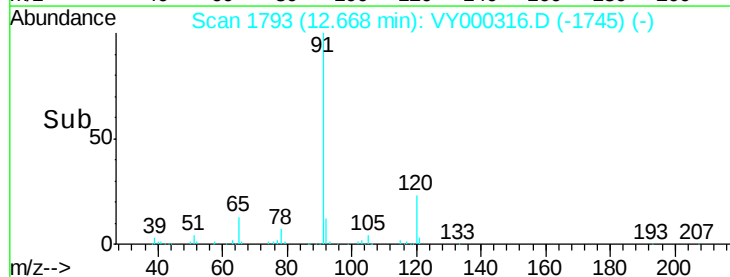
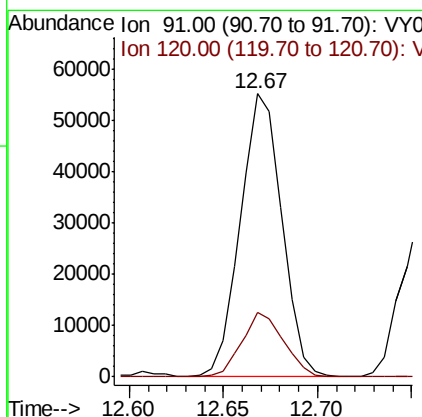
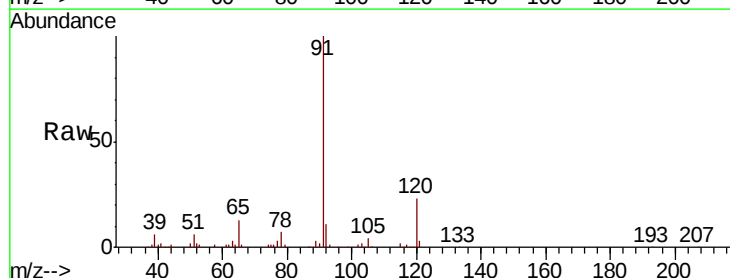
RT: 12.67 min Scan# 1793

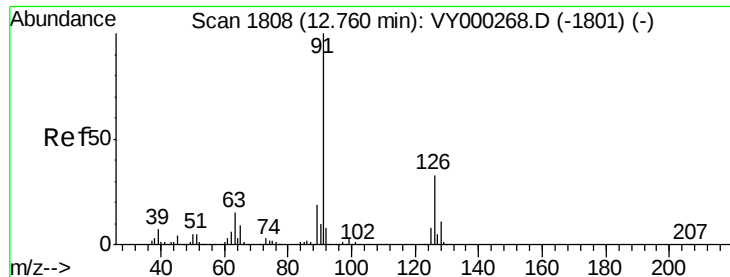
Delta R.T. -0.01 min

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





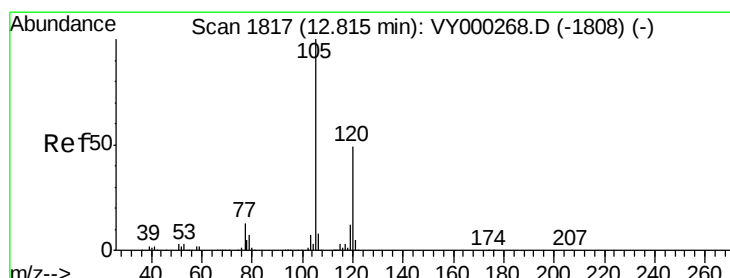
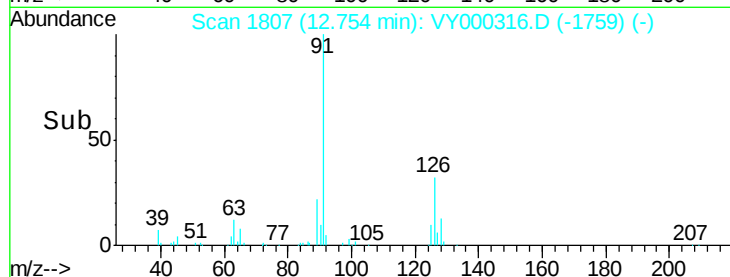
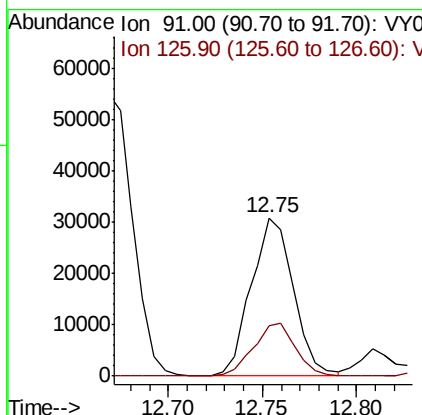
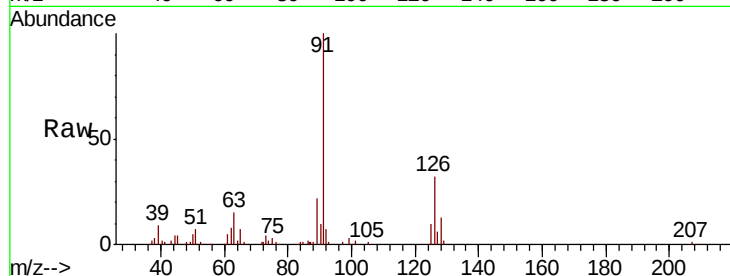
#79
2-Chlorotoluene
Concen: 4.397 ug/l
RT: 12.75 min Scan# 1807
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

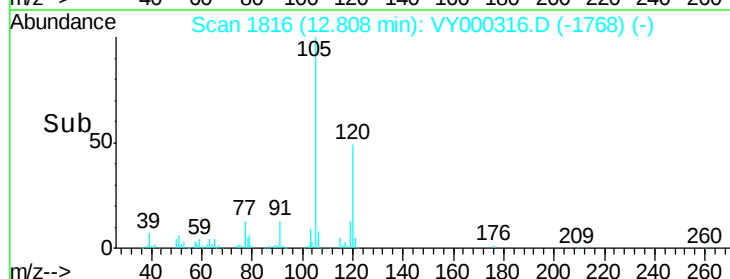
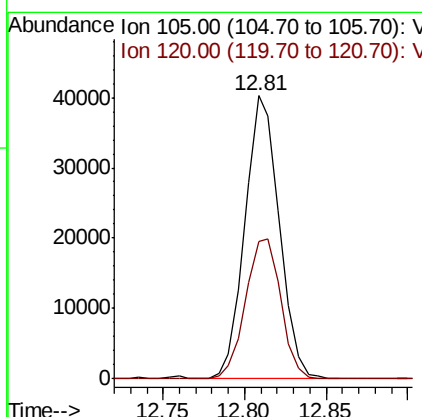
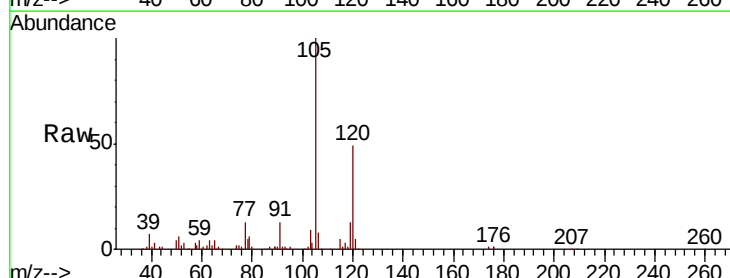
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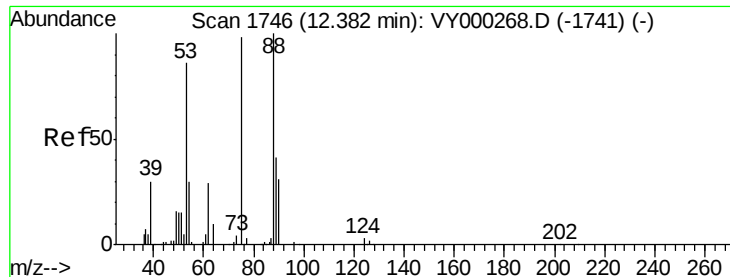
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 4.287 ug/l
RT: 12.81 min Scan# 1816
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion: 105 Resp: 59002
Ion Ratio Lower Upper
105 100
120 50.8 24.9 74.8





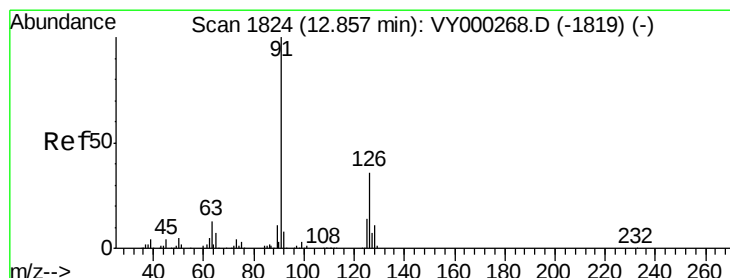
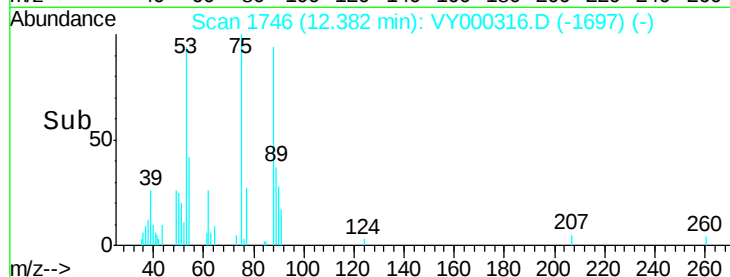
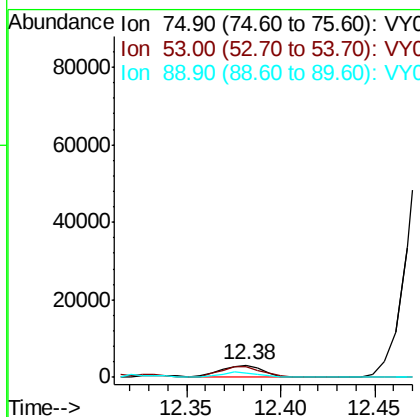
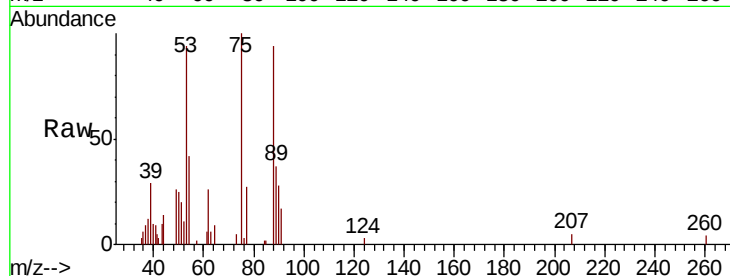
#81
trans-1,4-Dichloro-2-butene
Concen: 4.164 ug/l
RT: 12.38 min Scan# 1746
Delta R.T. -0.00 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

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

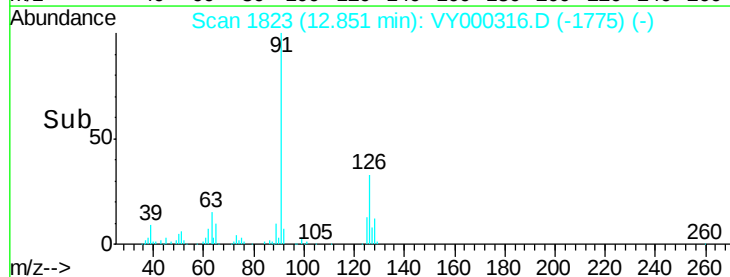
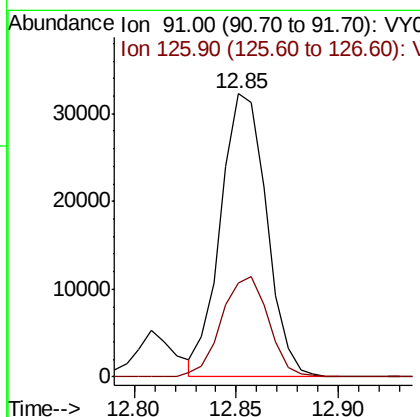
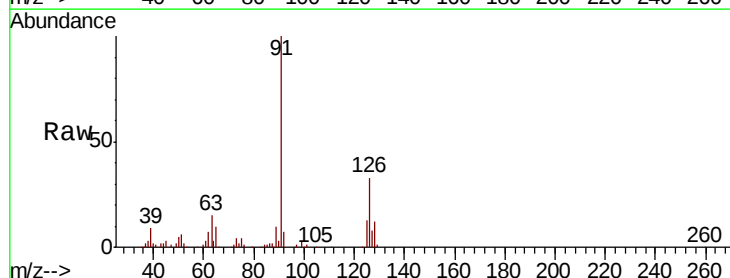
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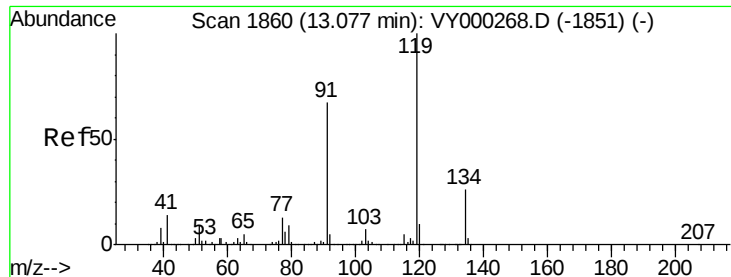
MMDadoda
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#82
4-Chlorotoluene
Concen: 4.355 ug/l
RT: 12.85 min Scan# 1823
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
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

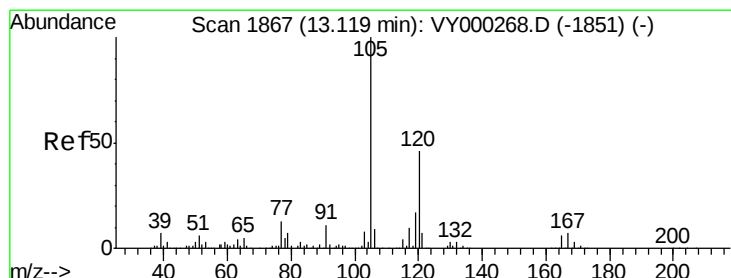
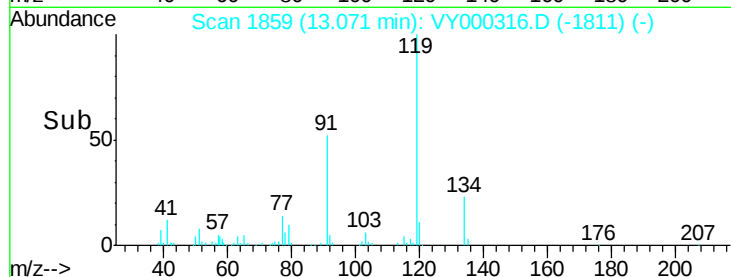
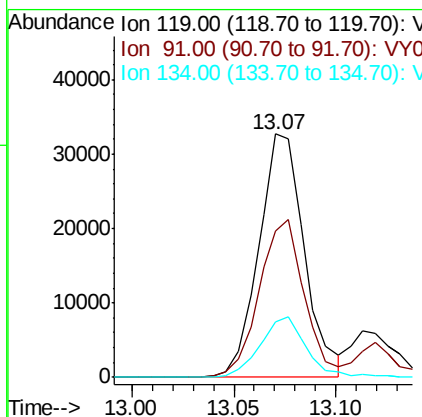
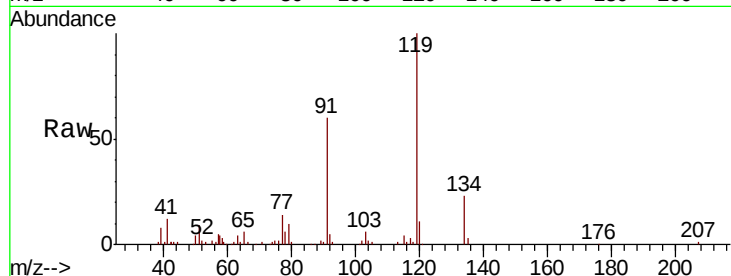
ClientSampleId :

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

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 4.239 ug/l

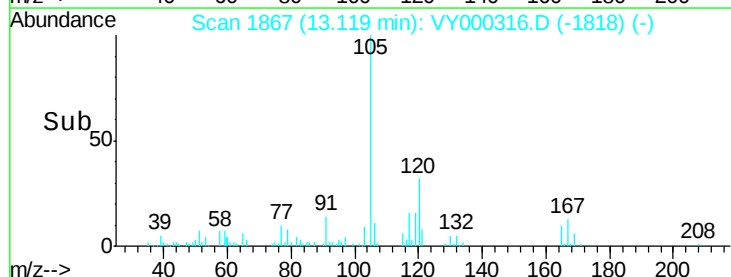
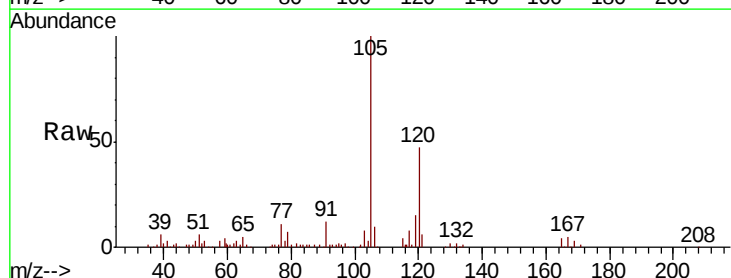
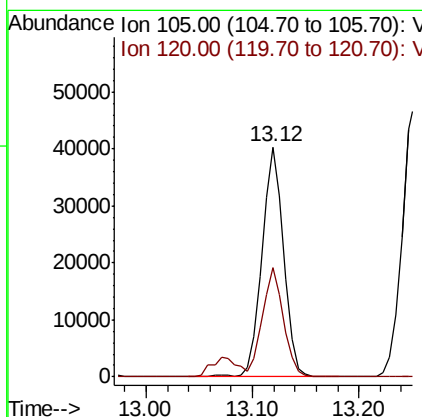
RT: 13.12 min Scan# 1867

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





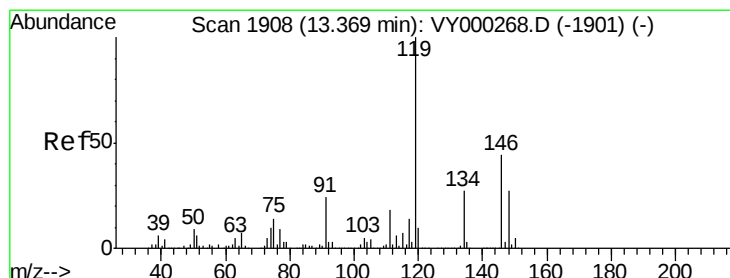
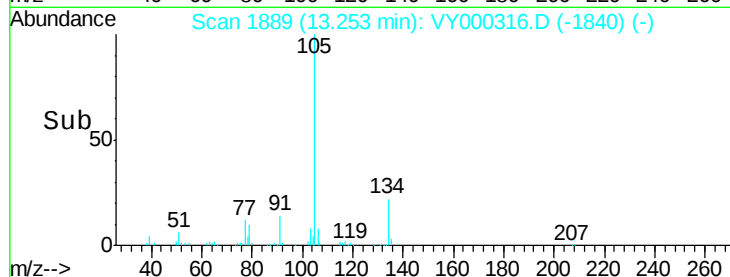
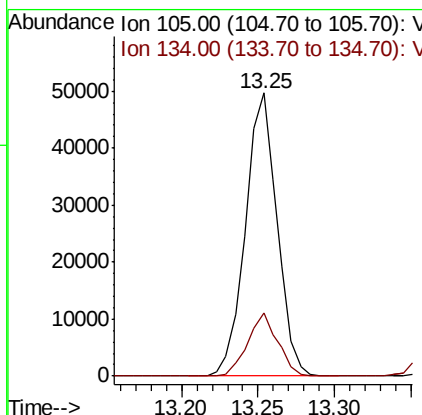
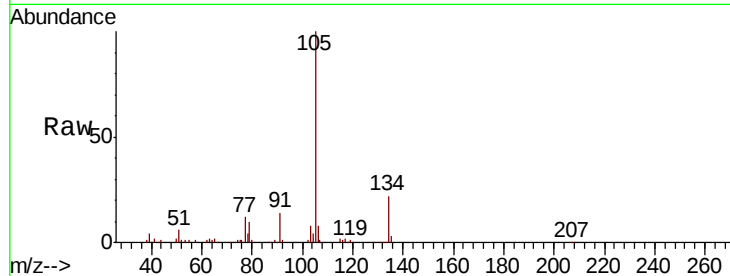
#85
 sec-Butylbenzene
 Concen: 4.221 ug/l
 RT: 13.25 min Scan# 1889
 Delta R.T. -0.00 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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

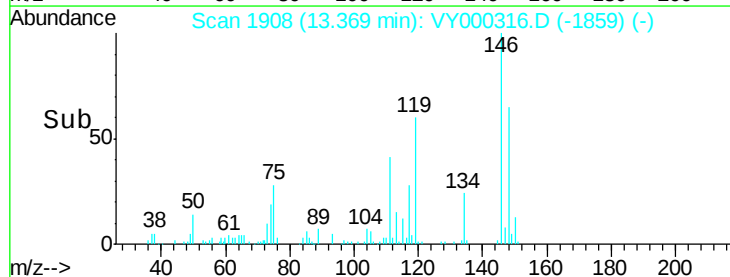
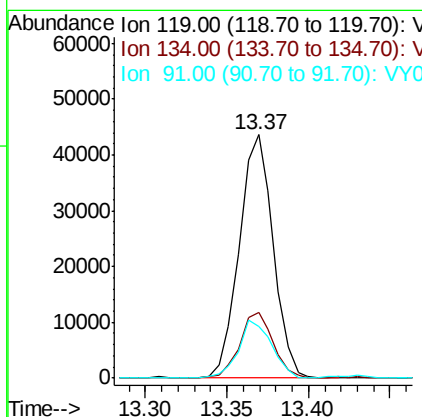
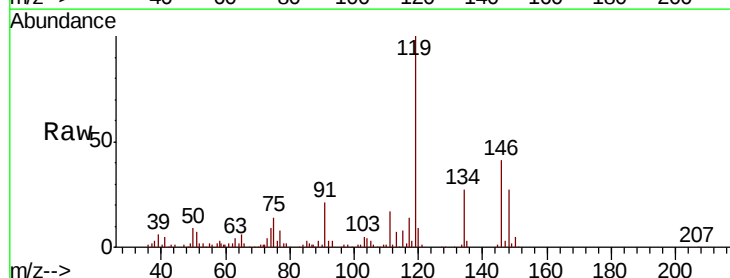
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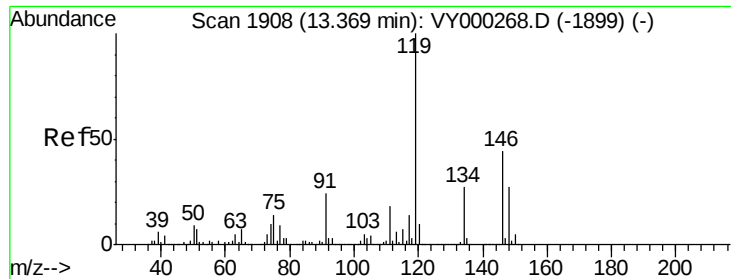
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#86
 p-Isopropyltoluene
 Concen: 4.306 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. -0.00 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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





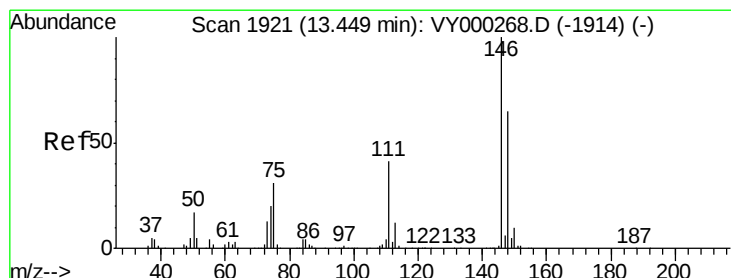
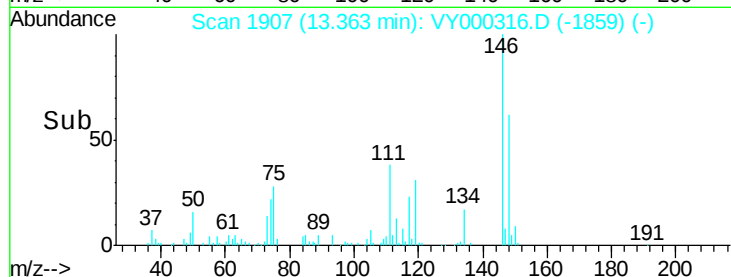
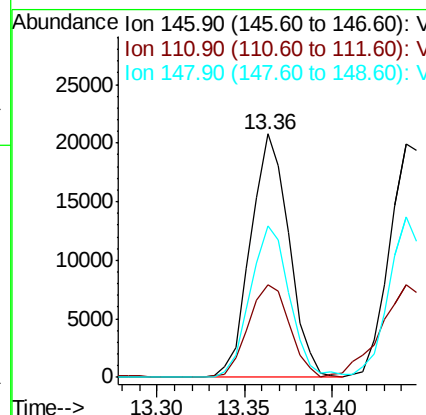
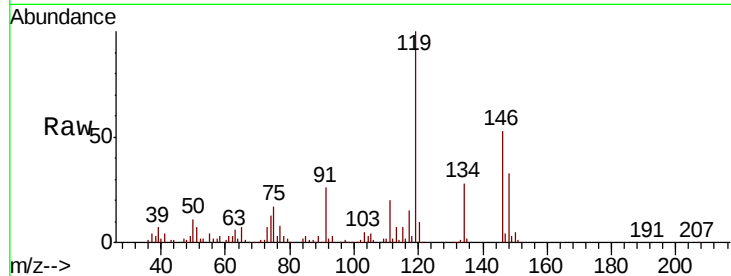
#87
 1,3-Dichlorobenzene
 Concen: 4.422 ug/l
 RT: 13.36 min Scan# 1907
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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

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

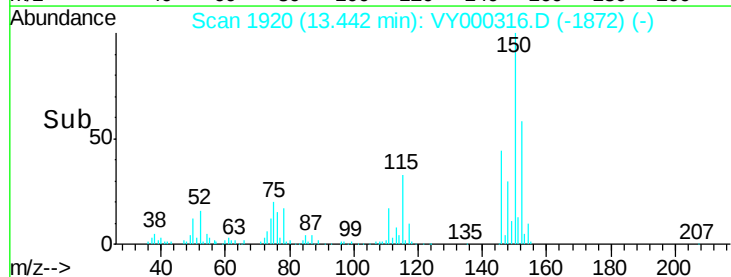
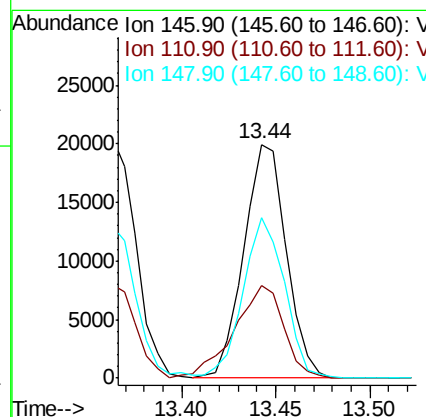
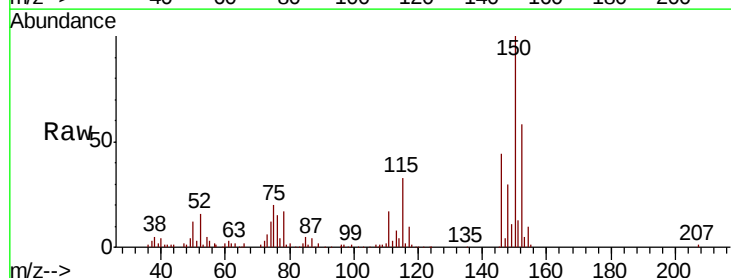
Manual Integrations
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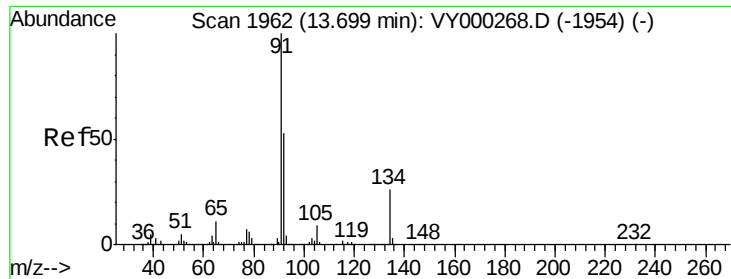
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#88
 1,4-Dichlorobenzene
 Concen: 4.340 ug/l
 RT: 13.44 min Scan# 1920
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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





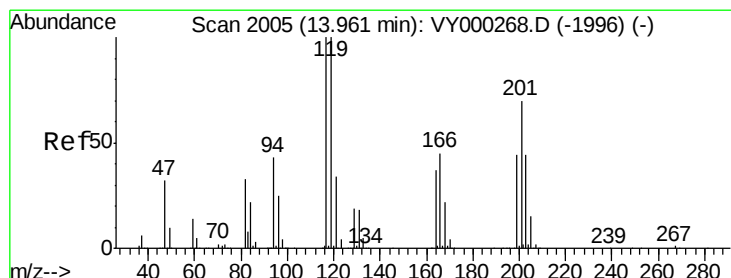
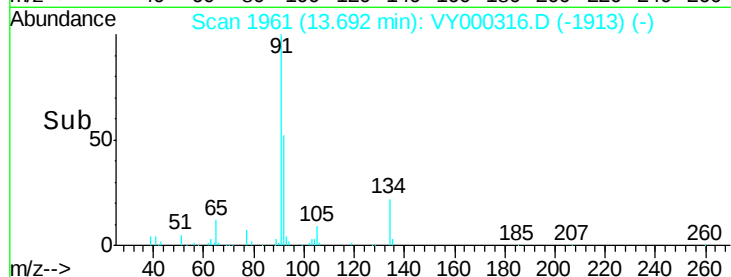
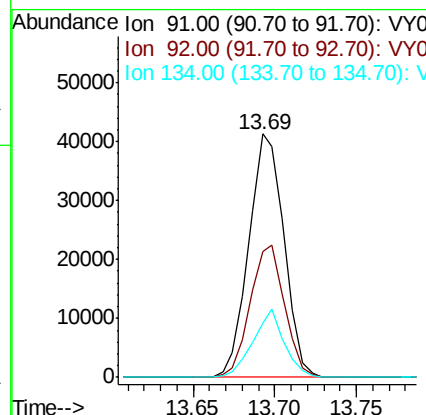
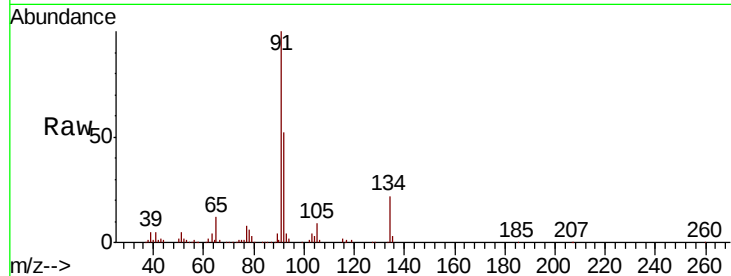
#89
n-Butylbenzene
Concen: 4.271 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

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

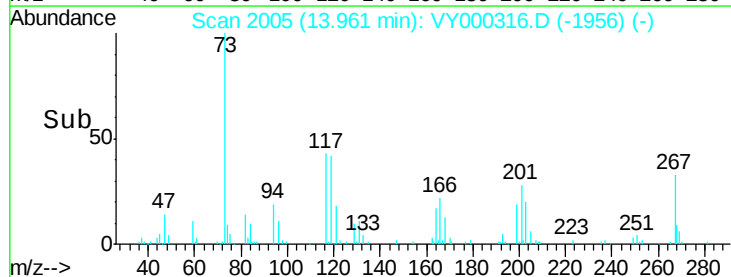
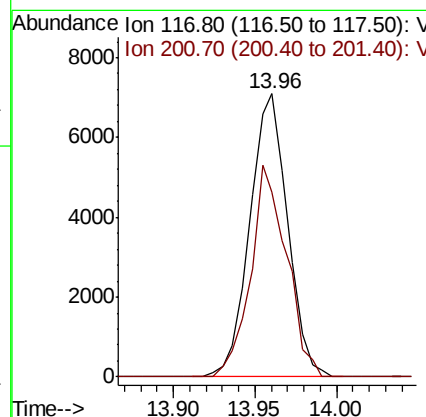
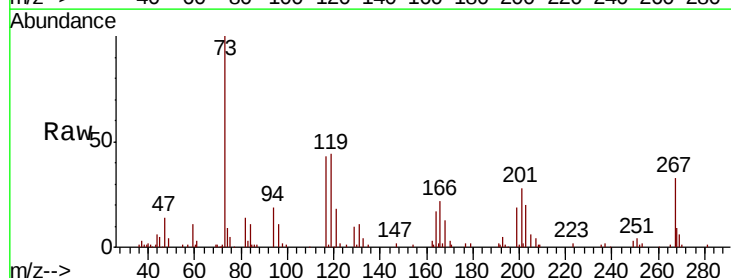
Manual Integrations
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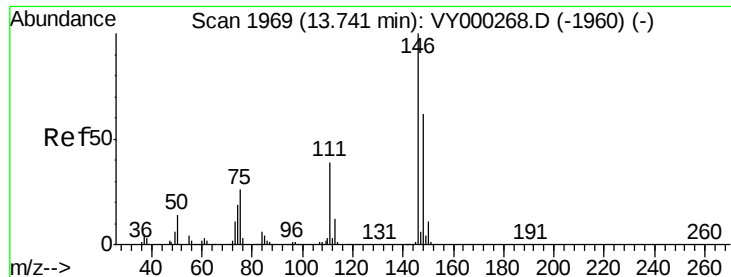
MMDadoda
10/18/2019 12:40:24 AM



#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	Ratio	Lower	Upper
117	100		
201	71.1	36.3	108.7





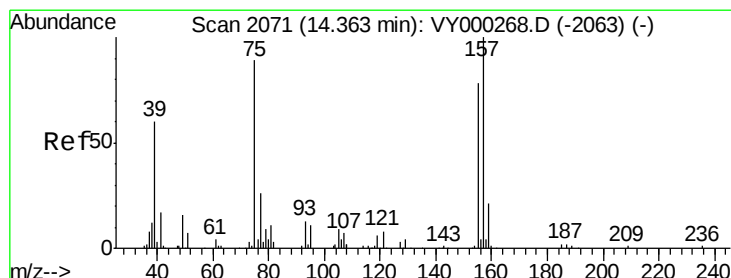
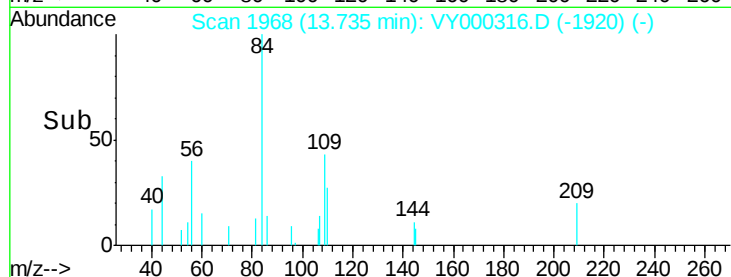
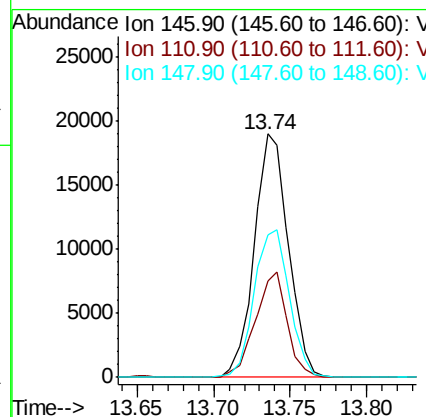
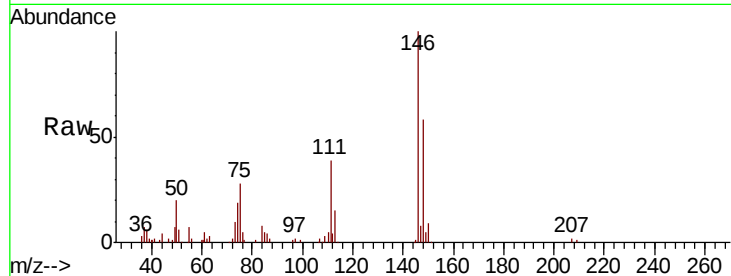
#91
 1,2-Dichlorobenzene
 Concen: 4.506 ug/l
 RT: 13.74 min Scan# 1968
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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

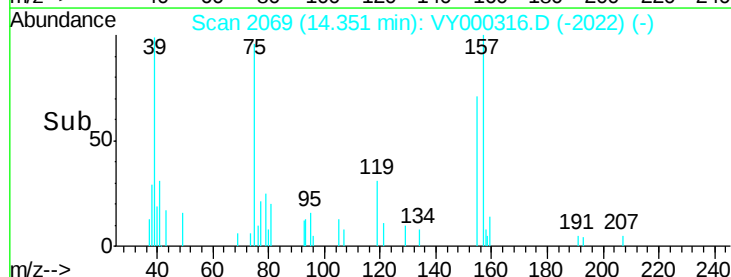
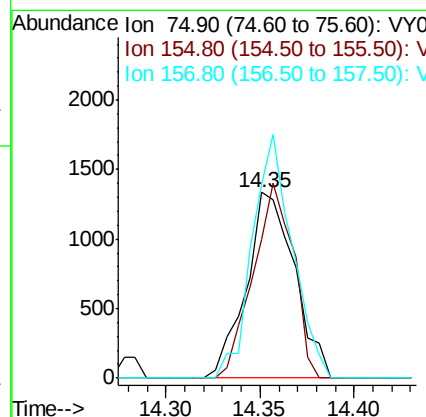
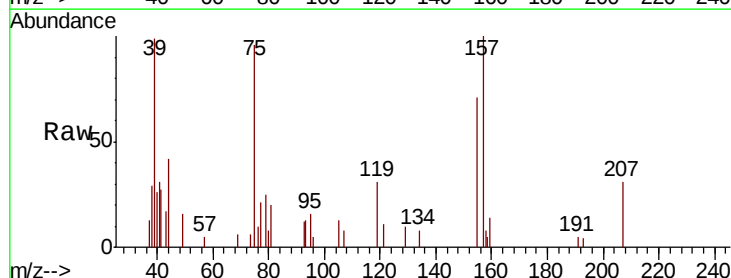
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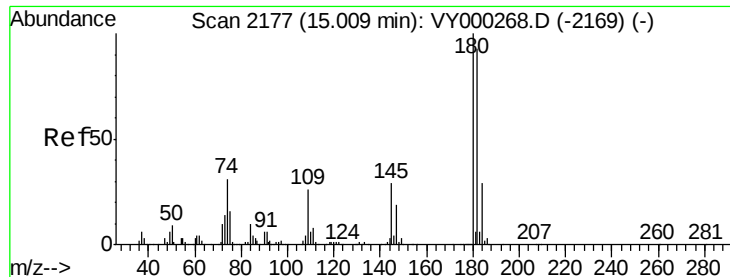
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.051 ug/l
 RT: 14.35 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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





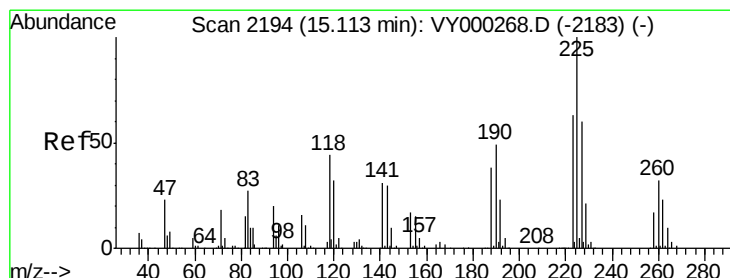
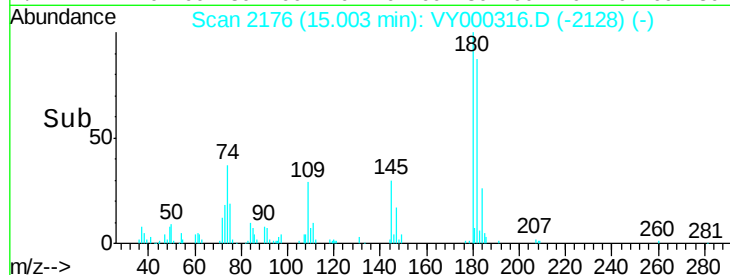
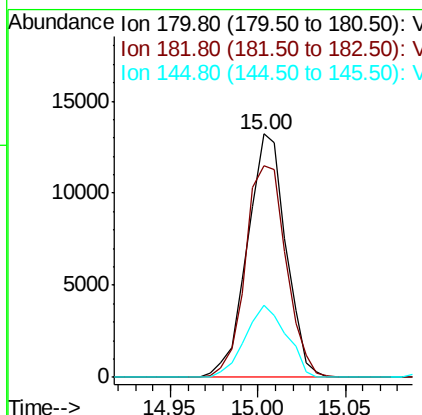
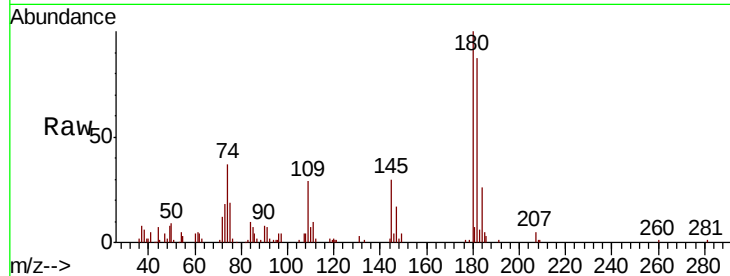
#93
 1,2,4-Trichlorobenzene
 Concen: 4.468 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY000316.D
 Acq: 15 Oct 2019 13:39

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

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

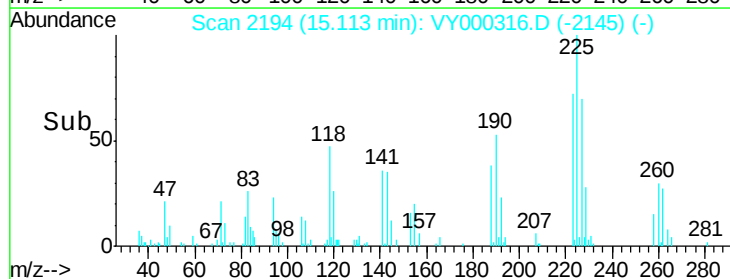
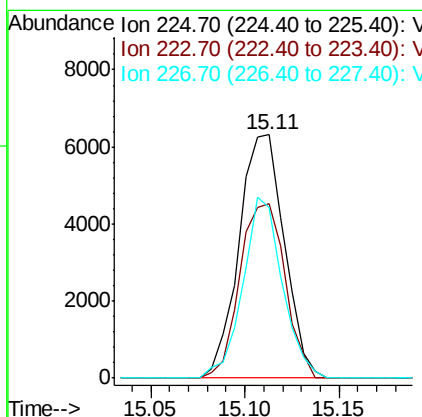
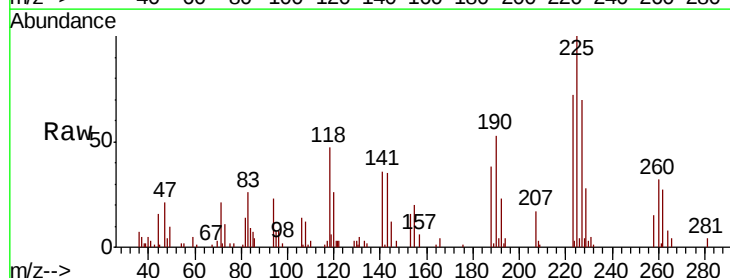
Manual Integrations
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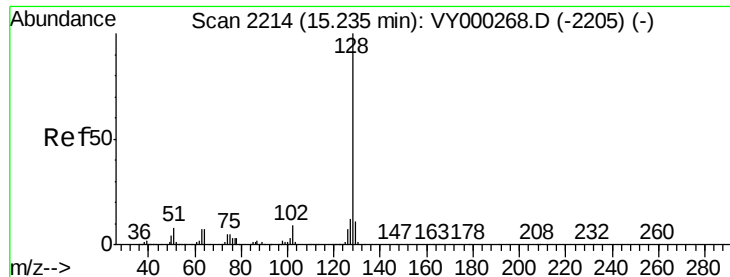
MMDadoda
 10/18/2019 12:40:24 AM



#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	Ratio	Lower	Upper
225	100		
223	71.3	31.9	95.7
227	64.7	31.4	94.2





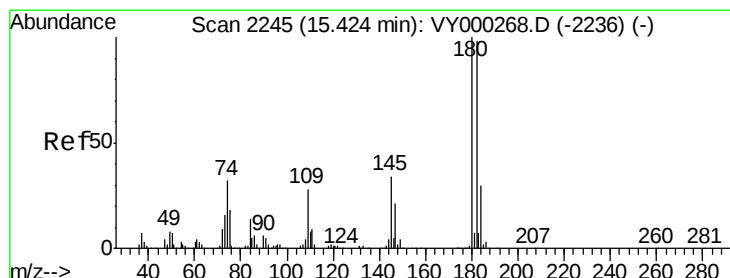
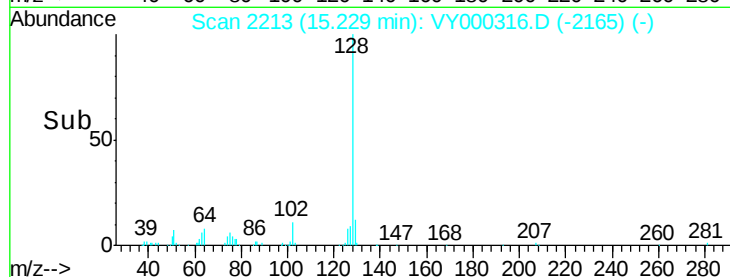
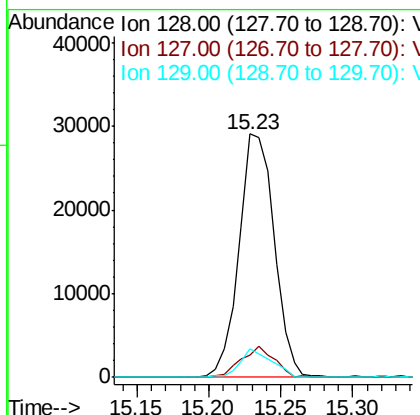
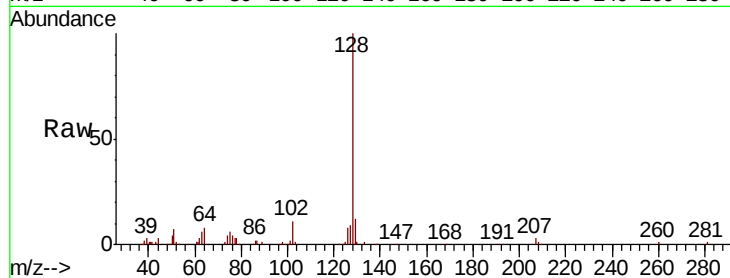
#95
Naphthalene
Concen: 4.861 ug/l
RT: 15.23 min Scan# 2213
Delta R.T. -0.01 min
Lab File: VY000316.D
Acq: 15 Oct 2019 13:39

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

Tot Ion	Ratio	Resp	Lower	Upper
128	100	49194		
127	12.1		9.6	14.4
129	10.7		8.7	13.1

Manual Integrations
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#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	Ratio	Resp	Lower	Upper
180	100	18905		
182	93.8		46.5	139.5
145	32.4		16.2	48.5

