

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW051719\
 Data File : VW010427.D
 Acq On : 17 May 2019 23:39
 Operator : SY/VA
 Sample : K2241-01 4PPB
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Quant Time: May 18 00:53:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W051719S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:49:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	616332	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	1200468	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	1080880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	489054	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	427739	63.28	ug/l	0.00
Spiked Amount			Recovery	=	126.56%	
35) Dibromofluoromethane	7.88	113	400629	54.03	ug/l	0.00
Spiked Amount			Recovery	=	108.06%	
50) Toluene-d8	10.32	98	1489138	53.86	ug/l	0.00
Spiked Amount			Recovery	=	107.72%	
62) 4-Bromofluorobenzene	12.62	95	584385	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	31866	3.895	ug/l	100
3) Chloromethane	2.21	50	38973	3.572	ug/l	97
4) Vinyl Chloride	2.35	62	34760	4.707	ug/l	95
5) Bromomethane	2.76	94	27135	3.011	ug/l	91
6) Chloroethane	2.90	64	24358	5.292	ug/l	100
7) Trichlorofluoromethane	3.25	101	48847	4.770	ug/l	86
8) Diethyl Ether	3.68	74	18986	5.212	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	4.05	101	30827	4.730	ug/l	95
10) Methyl Iodide	4.26	142	31326	4.298	ug/l	99
11) Tert butyl alcohol	5.18	59	19203	31.319	ug/l #	91
12) 1,1-Dichloroethene	4.03	96	30271	4.925	ug/l	91
13) Acrolein	3.90	56	12041	Below Cal		93
14) Allyl chloride	4.66	41	46328	4.859	ug/l	99
15) Acrylonitrile	5.37	53	41846	26.870	ug/l	96
16) Acetone	4.13	43	33695	28.299	ug/l #	88
17) Carbon Disulfide	4.37	76	86038	4.902	ug/l	98
18) Methyl Acetate	4.67	43	25048	6.732	ug/l	98
19) Methyl tert-butyl Ether	5.43	73	94526	5.362	ug/l	99
20) Methylene Chloride	4.91	84	42224	3.175	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	35255	4.918	ug/l	95
22) Diisopropyl ether	6.31	45	101861	5.006	ug/l #	91
23) Vinyl Acetate	6.26	43	292559	23.047	ug/l	99
24) 1,1-Dichloroethane	6.21	63	56753	4.817	ug/l	99
25) 2-Butanone	7.18	43	53524	26.371	ug/l	93
26) 2,2-Dichloropropane	7.17	77	43568	4.098	ug/l	93
27) cis-1,2-Dichloroethene	7.17	96	42034	5.228	ug/l	92
28) Bromochloromethane	7.51	49	17985	4.063	ug/l	99
29) Tetrahydrofuran	7.53	42	38321	27.900	ug/l	97
30) Chloroform	7.68	83	61080	4.930	ug/l	97
31) Cyclohexane	7.95	56	64709	2.454	ug/l #	77
32) 1,1,1-Trichloroethane	7.87	97	55815	4.777	ug/l	99
36) 1,1-Dichloropropene	8.08	75	46063	4.334	ug/l	95
37) Ethyl Acetate	7.26	43	25173	4.937	ug/l	97
38) Carbon Tetrachloride	8.07	117	48903	4.264	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW051719\
 Data File : VW010427.D
 Acq On : 17 May 2019 23:39
 Operator : SY/VA
 Sample : K2241-01 4PPB
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Quant Time: May 18 00:53:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W051719S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:49:26 2019
 Response via : Initial Calibration

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

39) Methylcyclohexane	9.34	83	61824	4.356	ug/l	93
40) Benzene	8.32	78	134792	4.444	ug/l	100
41) Methacrylonitrile	7.49	41	15532	5.087	ug/l #	87
42) 1,2-Dichloroethane	8.40	62	43982	4.867	ug/l	97
43) Isopropyl Acetate	8.43	43	50570	4.870	ug/l	98
44) Trichloroethene	9.09	130	38567	4.438	ug/l	97
45) 1,2-Dichloropropane	9.37	63	34848	4.693	ug/l	93
46) Dibromomethane	9.45	93	21527	4.908	ug/l	96
47) Bromodichloromethane	9.65	83	49129	4.508	ug/l	100
48) Methyl methacrylate	9.43	41	21916	4.580	ug/l	92
49) 1,4-Dioxane	9.46	88	6671	102.772	ug/l	93
51) 4-Methyl-2-Pentanone	10.21	43	130544	24.577	ug/l	99
52) Toluene	10.38	92	90844	4.510	ug/l	97
53) t-1,3-Dichloropropene	10.60	75	49836	4.434	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	56056	4.399	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	30618	4.838	ug/l	96
56) Ethyl methacrylate	10.65	69	40750	4.615	ug/l	98
57) 1,3-Dichloropropane	10.93	76	50976	4.805	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.93	63	92095	21.706	ug/l	98
59) 2-Hexanone	10.97	43	86934	23.504	ug/l	98
60) Dibromochloromethane	11.13	129	35160	4.477	ug/l	99
61) 1,2-Dibromoethane	11.24	107	30284	4.722	ug/l	95
64) Tetrachloroethene	10.86	164	36782	5.174	ug/l	98
65) Chlorobenzene	11.66	112	101287	4.615	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.73	131	34777	4.291	ug/l	97
67) Ethyl Benzene	11.73	91	173382	4.484	ug/l	95
68) m/p-Xylenes	11.84	106	135009	8.922	ug/l	97
69) o-Xylene	12.16	106	63896	4.430	ug/l	94
70) Styrene	12.18	104	109450	4.407	ug/l	99
71) Bromoform	12.35	173	20454	4.479	ug/l #	97
73) Isopropylbenzene	12.46	105	170934	4.520	ug/l	100
74) N-amyl acetate	12.27	43	42880	4.425	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.71	83	35730	4.771	ug/l	96
76) 1,2,3-Trichloropropane	12.77	75	47407	9.052	ug/l #	100
77) Bromobenzene	12.75	156	38652	4.525	ug/l	91
78) n-propylbenzene	12.80	91	203063	4.629	ug/l	99
79) 2-Chlorotoluene	12.90	91	120886	4.719	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	149767	4.653	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	10982	4.138	ug/l	88
82) 4-Chlorotoluene	12.99	91	128764	4.813	ug/l	97
83) tert-Butylbenzene	13.21	119	129573	4.760	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	149653	4.726	ug/l	96
85) sec-Butylbenzene	13.38	105	178707	4.662	ug/l	98
86) p-Isopropyltoluene	13.50	119	154744	4.469	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	78753	4.787	ug/l	97
88) 1,4-Dichlorobenzene	13.58	146	76578	4.676	ug/l	92
89) n-Butylbenzene	13.83	91	147629	4.468	ug/l	99
90) Hexachloroethane	14.09	117	30979	4.447	ug/l	94
91) 1,2-Dichlorobenzene	13.87	146	69879	4.671	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.49	75	7447	5.343	ug/l	82

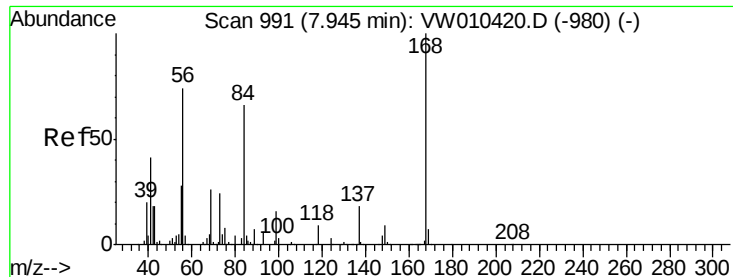
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW051719\
Data File : VW010427.D
Acq On : 17 May 2019 23:39
Operator : SY/VA
Sample : K2241-01 4PPB
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Quant Time: May 18 00:53:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W051719S.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:49:26 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	43049	4.415	ug/l	98
94) Hexachlorobutadiene	15.24	225	22950	4.408	ug/l	98
95) Naphthalene	15.37	128	101911	4.623	ug/l	97
96) 1,2,3-Trichlorobenzene	15.56	180	38540	4.483	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

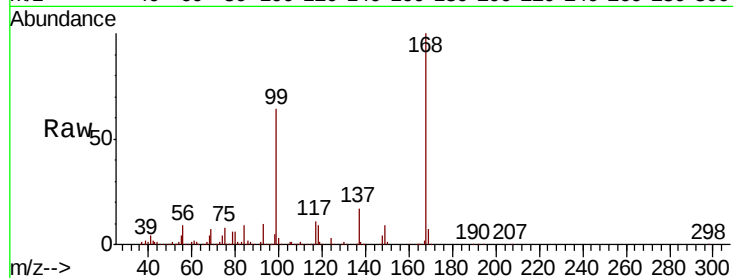
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion:168 Resp: 616332

Ion Ratio Lower Upper

168 100

99 64.5 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

300000

250000

200000

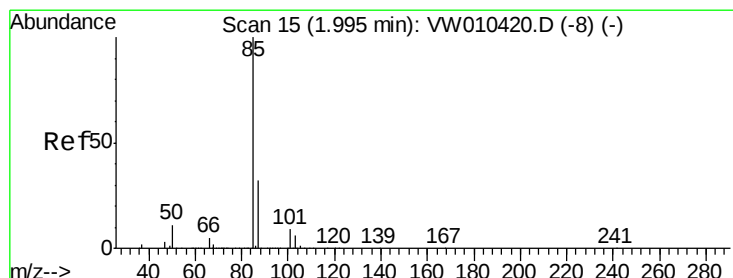
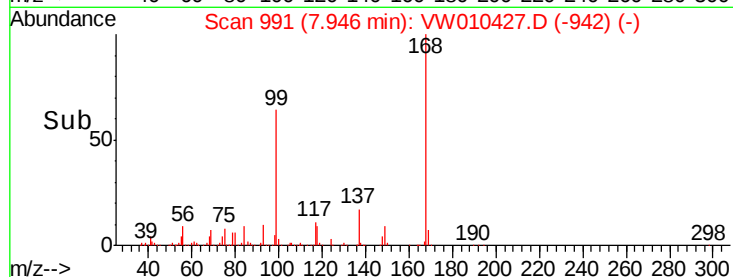
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.895 ug/l

RT: 2.00 min Scan# 15

Delta R.T. 0.00 min

Lab File: VW010427.D

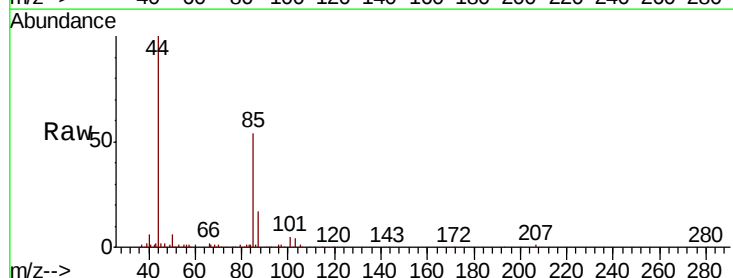
Acq: 17 May 2019 23:39

Tgt Ion: 85 Resp: 31866

Ion Ratio Lower Upper

85 100

87 32.2 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

20000

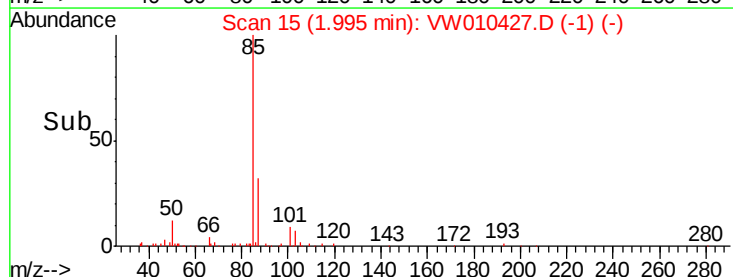
15000

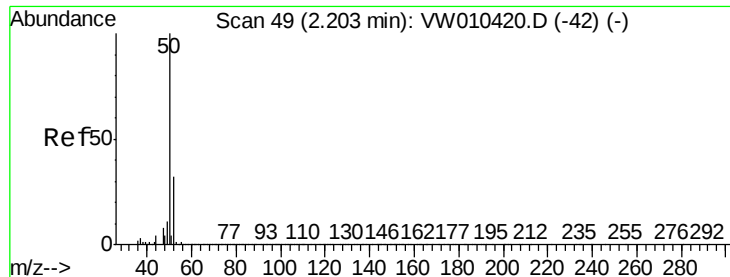
10000

5000

0

Time-->





#3

Chloromethane

Concen: 3.572 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

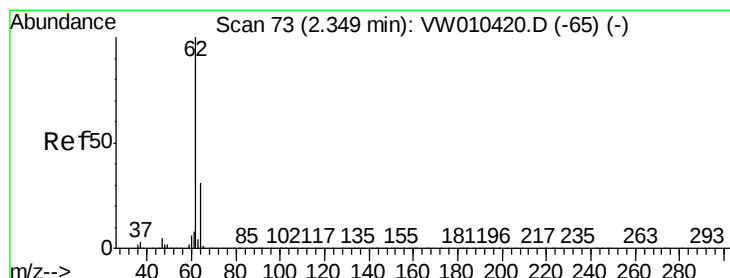
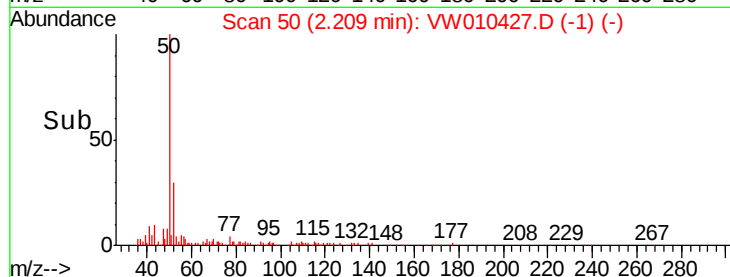
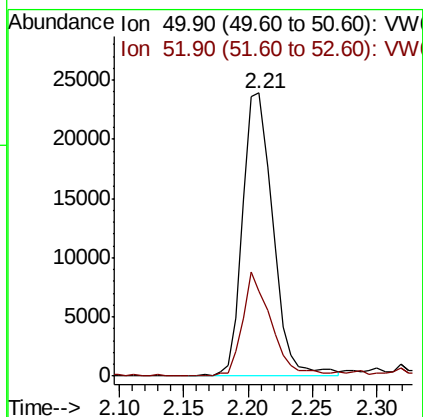
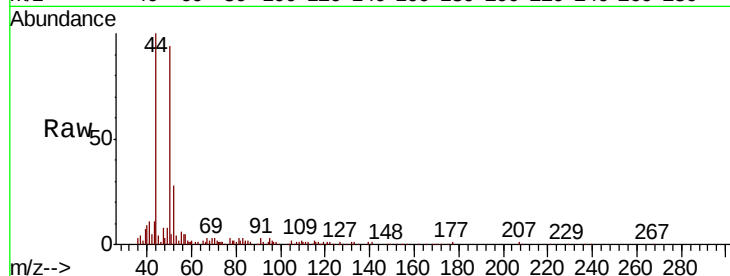
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 50 Resp: 38973

Ion Ratio Lower Upper

50 100

52 29.8 25.4 38.0



#4

Vinyl Chloride

Concen: 4.707 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VW010427.D

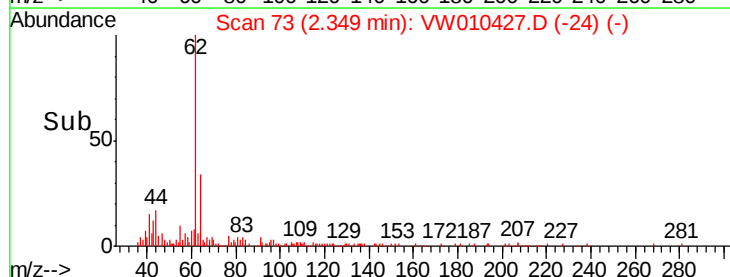
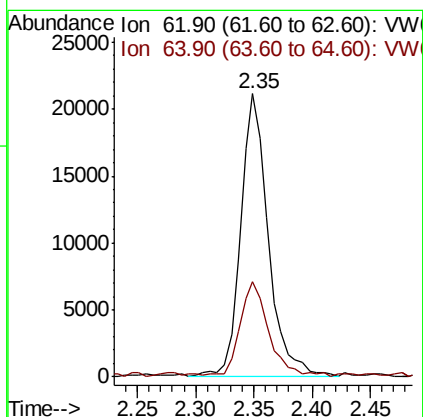
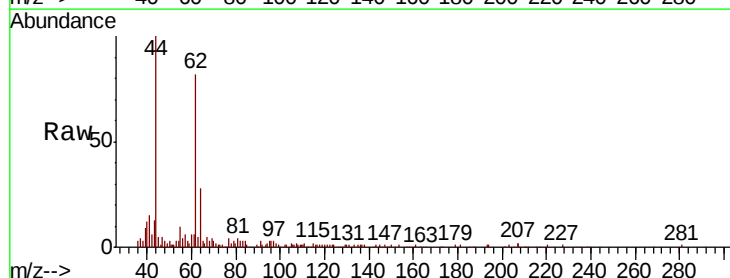
Acq: 17 May 2019 23:39

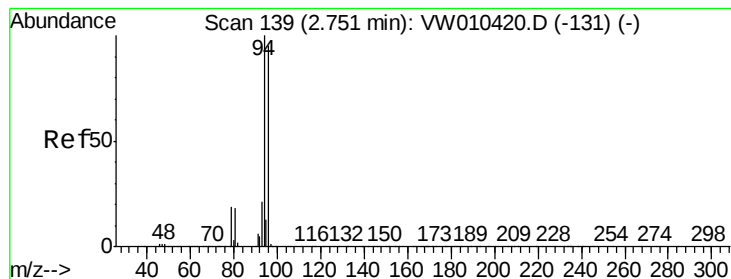
Tgt Ion: 62 Resp: 34760

Ion Ratio Lower Upper

62 100

64 33.0 24.4 36.6





#5

Bromomethane

Concen: 3.011 ug/l

RT: 2.76 min Scan# 140

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

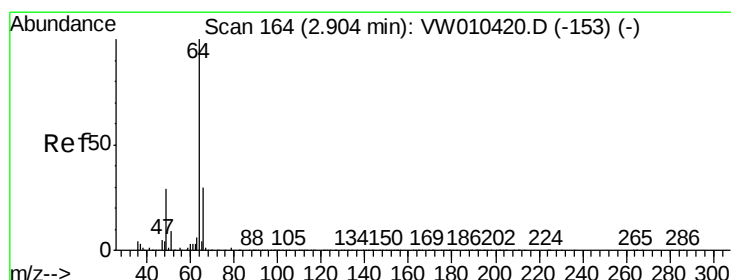
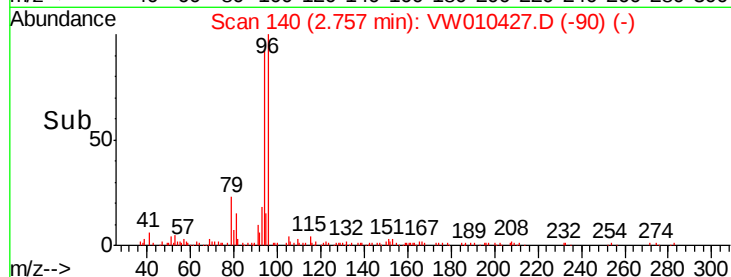
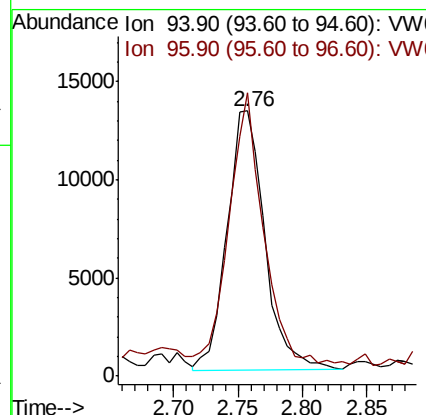
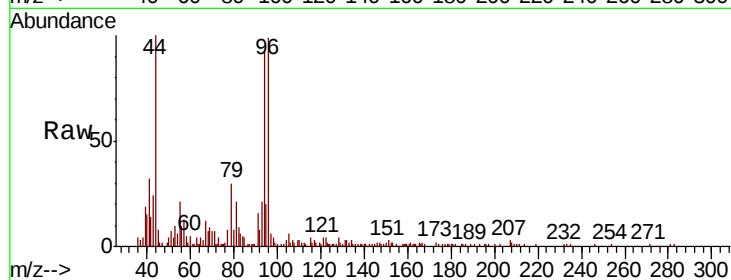
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 94 Resp: 27135

Ion Ratio Lower Upper

94 100

96 103.6 75.8 113.6



#6

Chloroethane

Concen: 5.292 ug/l

RT: 2.90 min Scan# 164

Delta R.T. 0.00 min

Lab File: VW010427.D

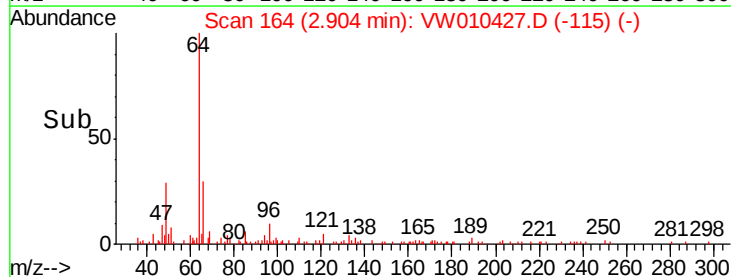
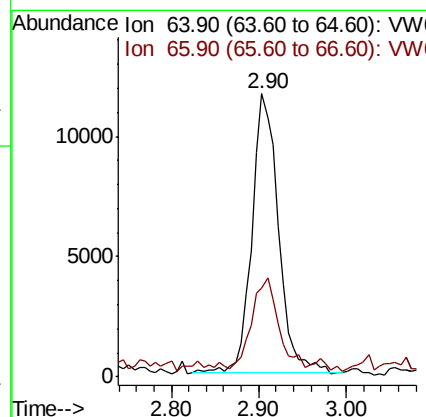
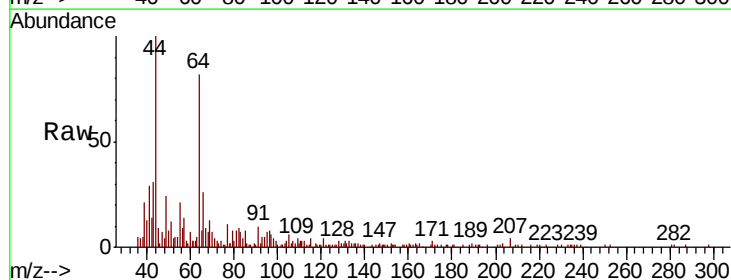
Acq: 17 May 2019 23:39

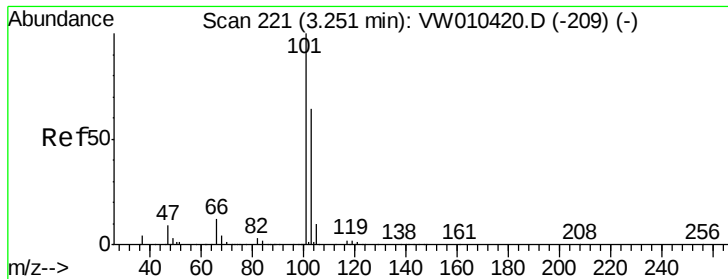
Tgt Ion: 64 Resp: 24358

Ion Ratio Lower Upper

64 100

66 29.6 23.6 35.4





#7

Trichlorofluoromethane

Concen: 4.770 ug/l

RT: 3.25 min Scan# 220

Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

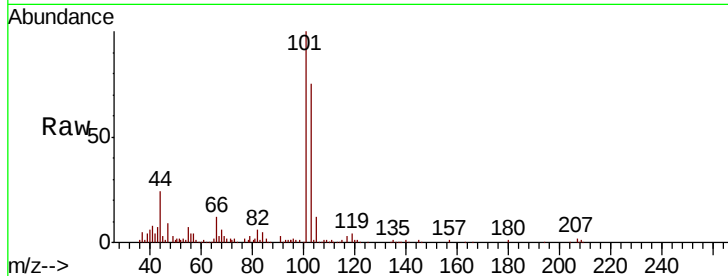
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion:101 Resp: 48847

Ion Ratio Lower Upper

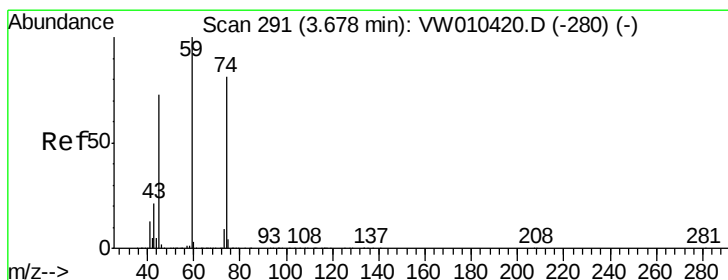
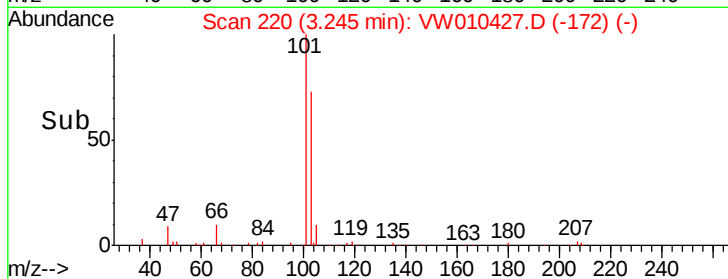
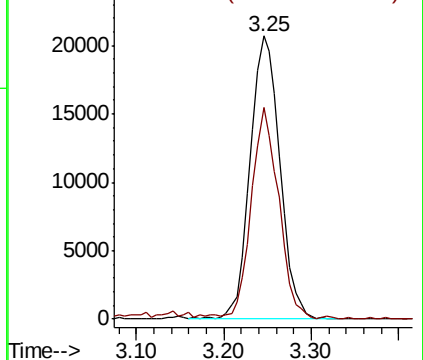
101 100

103 74.9 51.4 77.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 5.212 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW010427.D

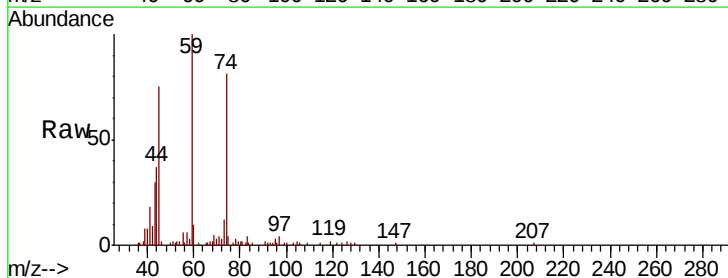
Acq: 17 May 2019 23:39

Tgt Ion: 74 Resp: 18986

Ion Ratio Lower Upper

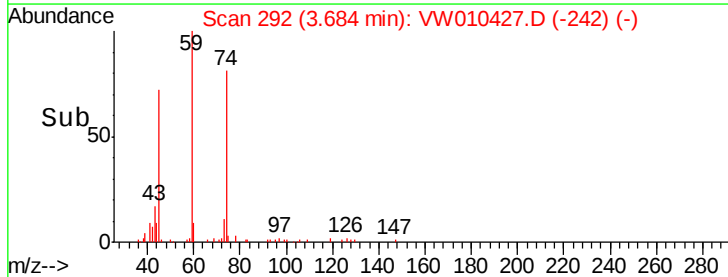
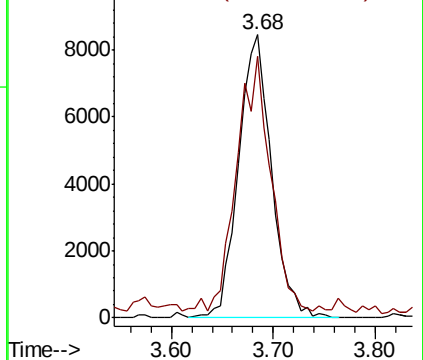
74 100

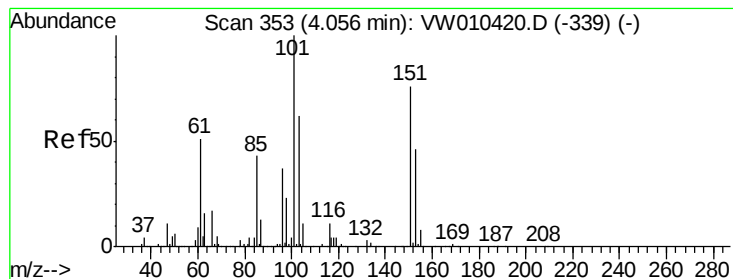
45 93.5 43.4 130.2



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.730 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

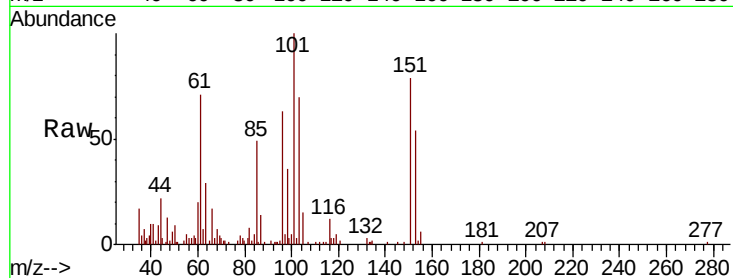
Tgt Ion:101 Resp: 30827

Ion Ratio Lower Upper

101 100

85 48.0 34.3 51.5

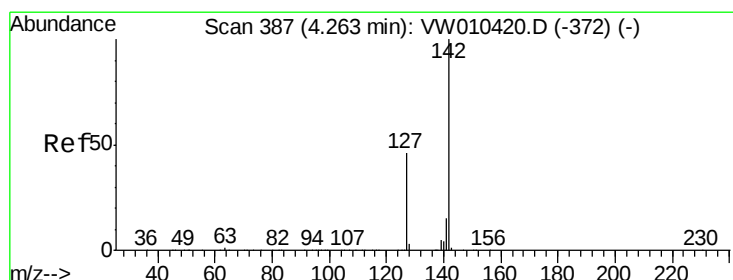
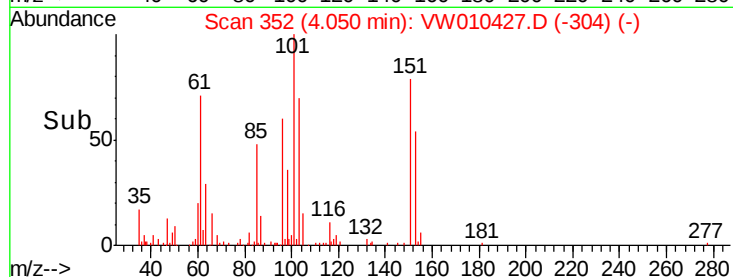
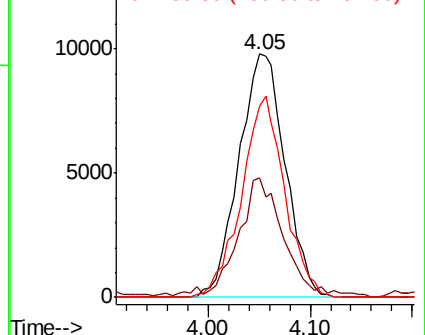
151 77.3 59.4 89.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.298 ug/l

RT: 4.26 min Scan# 387

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

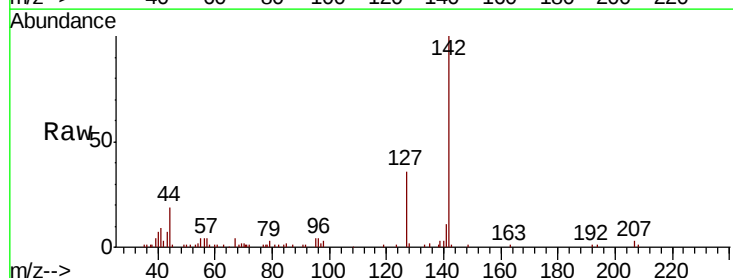
Tgt Ion:142 Resp: 31326

Ion Ratio Lower Upper

142 100

127 43.8 35.4 53.2

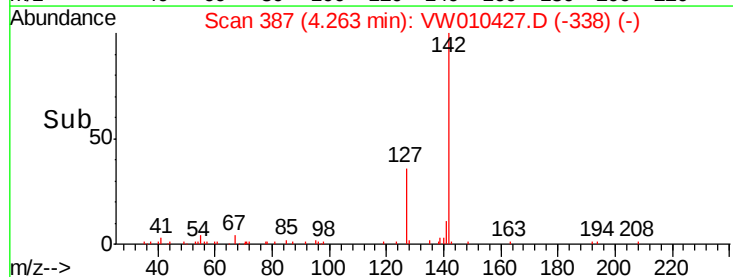
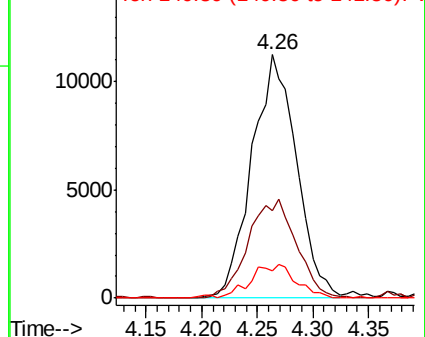
141 14.1 11.4 17.2

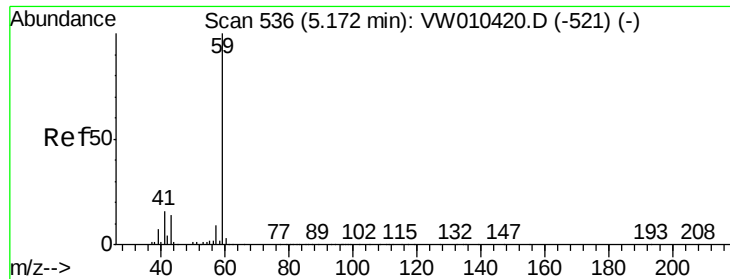


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

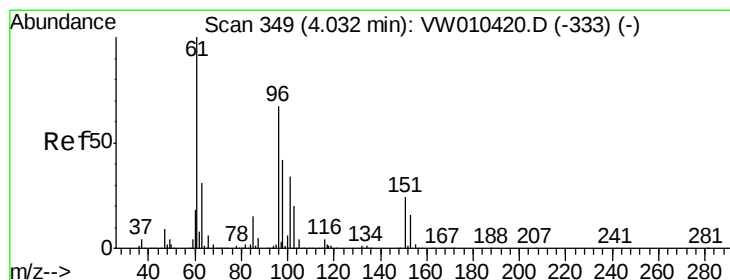
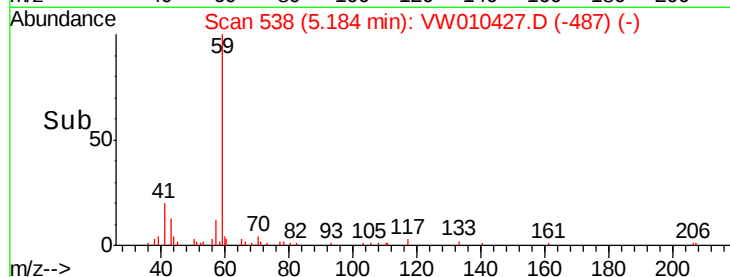
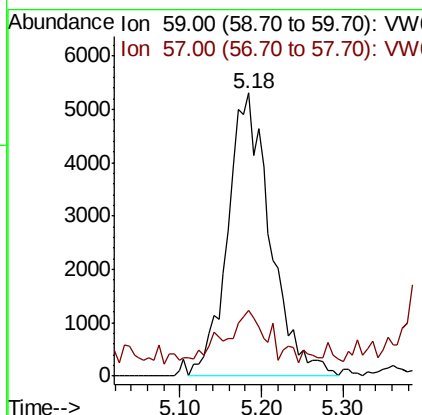
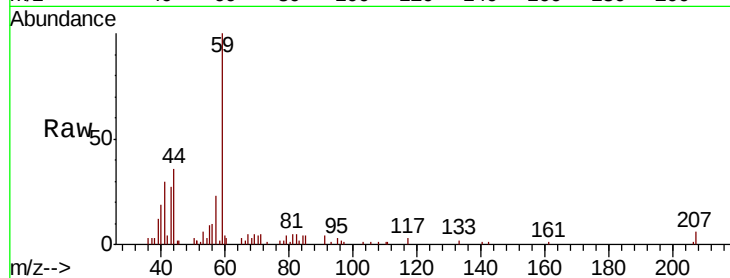




#11
Tert butyl alcohol
Concen: 31.319 ug/l
RT: 5.18 min Scan# 538
Delta R.T. 0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

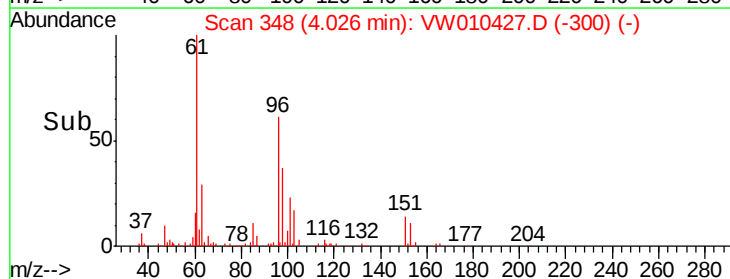
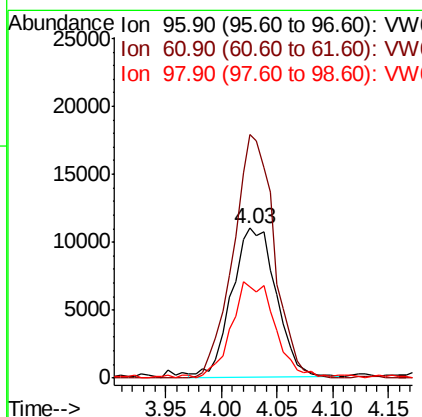
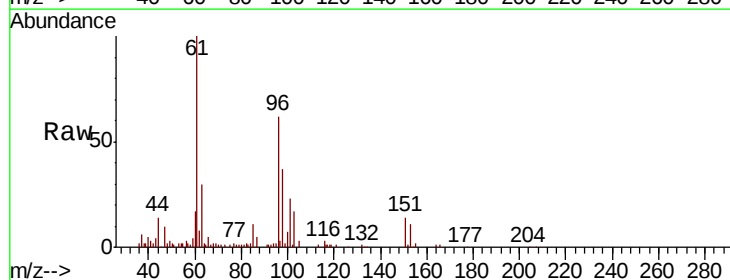
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

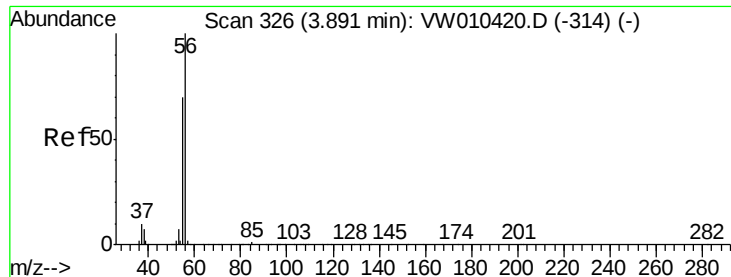
Tgt Ion: 59 Resp: 19203
Ion Ratio Lower Upper
59 100
57 7.2 8.4 12.6#



#12
1,1-Dichloroethene
Concen: 4.925 ug/l
RT: 4.03 min Scan# 348
Delta R.T. -0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion: 96 Resp: 30271
Ion Ratio Lower Upper
96 100
61 163.7 120.3 180.5
98 59.4 50.7 76.1





#13

Acrolein

Concen: Below Cal

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

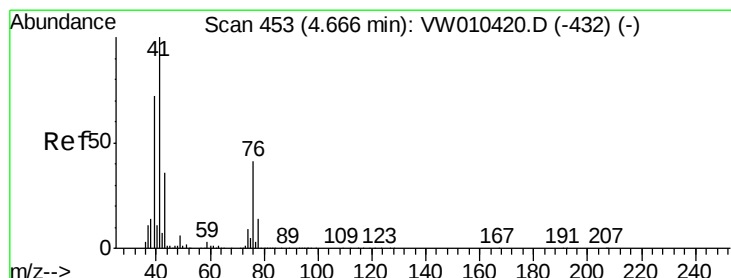
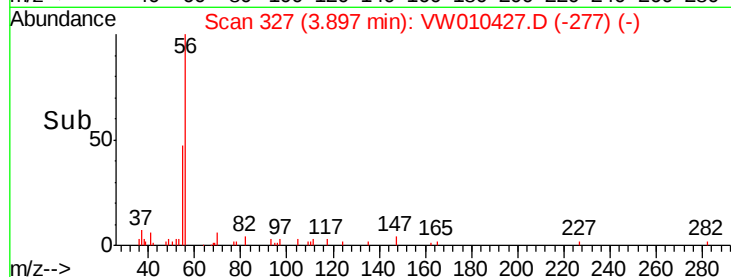
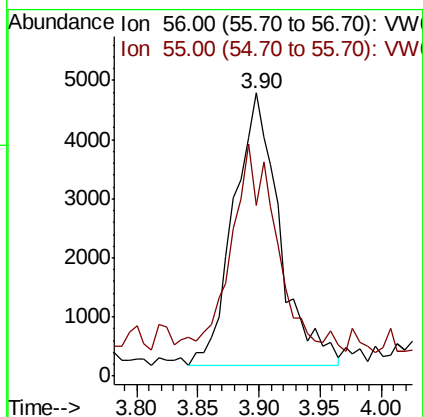
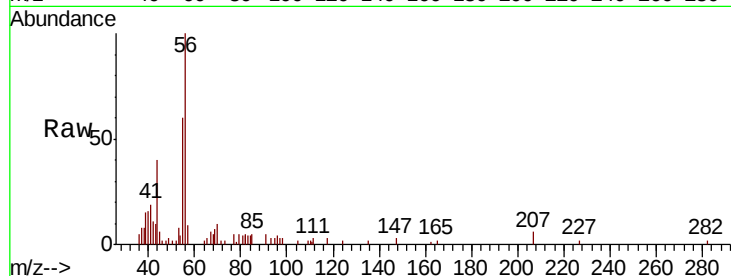
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 56 Resp: 12041

Ion Ratio Lower Upper

56 100

55 78.0 57.6 86.4



#14

Allyl chloride

Concen: 4.859 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

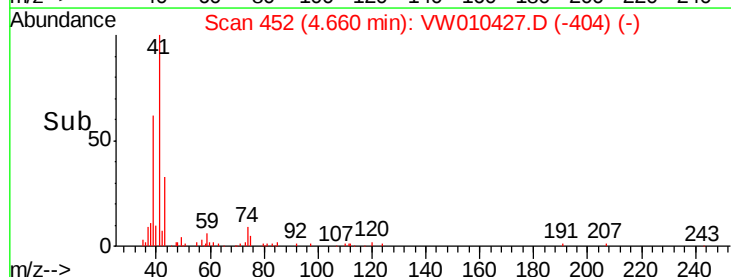
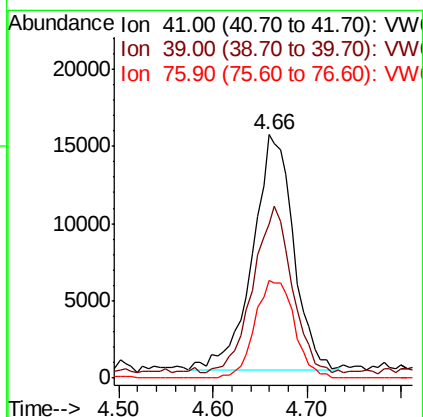
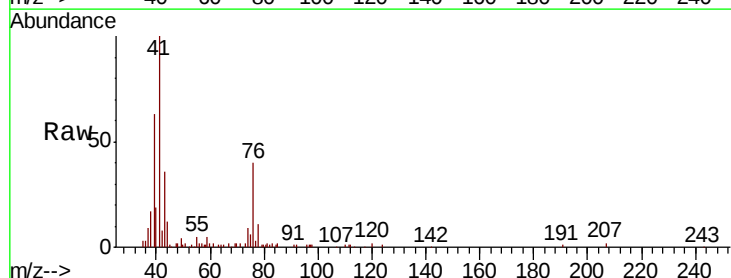
Tgt Ion: 41 Resp: 46328

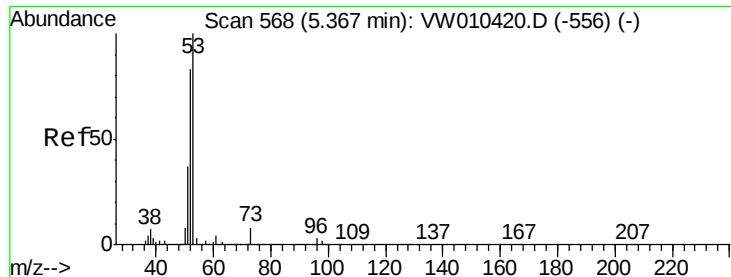
Ion Ratio Lower Upper

41 100

39 67.8 54.9 82.3

76 40.1 31.8 47.6





#15

Acrylonitrile

Concen: 26.870 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

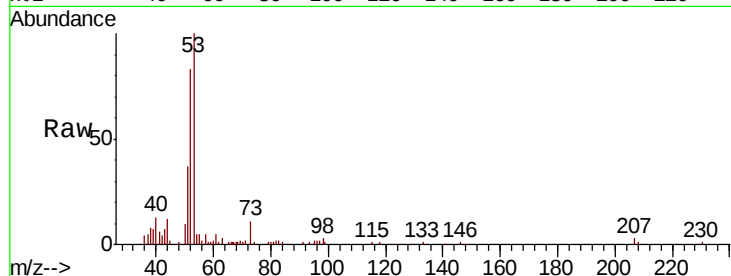
Tgt Ion: 53 Resp: 41846

Ion Ratio Lower Upper

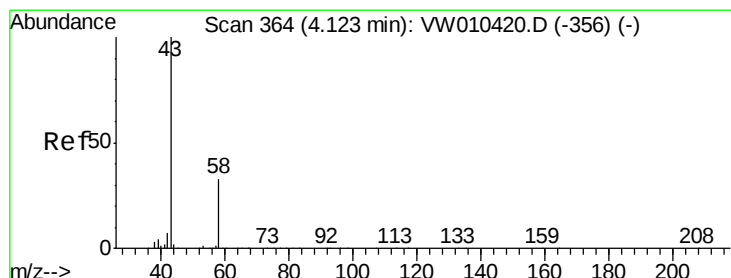
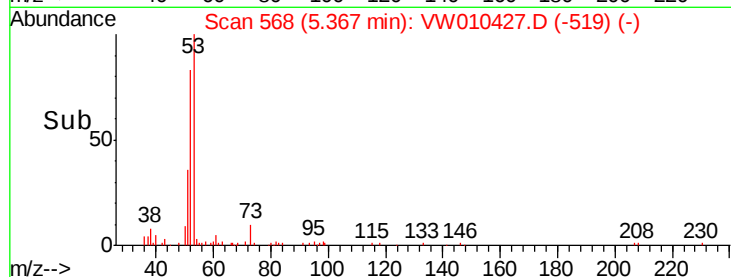
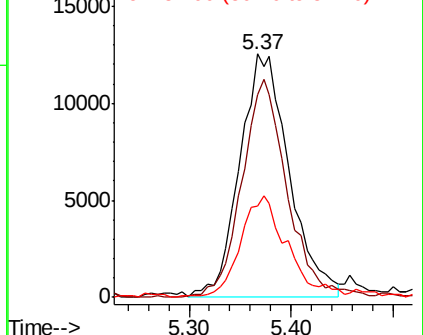
53 100

52 83.0 63.9 95.9

51 39.8 29.5 44.3



Abundance Ion 53.00 (52.70 to 53.70): VW
Ion 52.00 (51.70 to 52.70): VW
Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 28.299 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010427.D

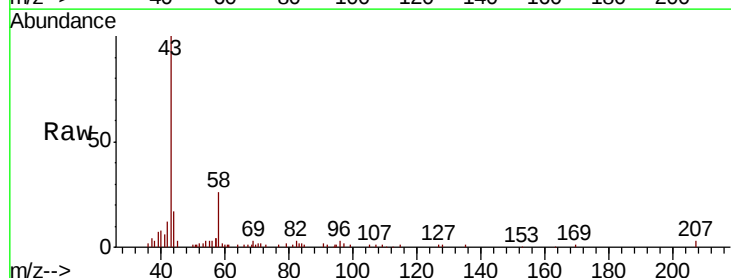
Acq: 17 May 2019 23:39

Tgt Ion: 43 Resp: 33695

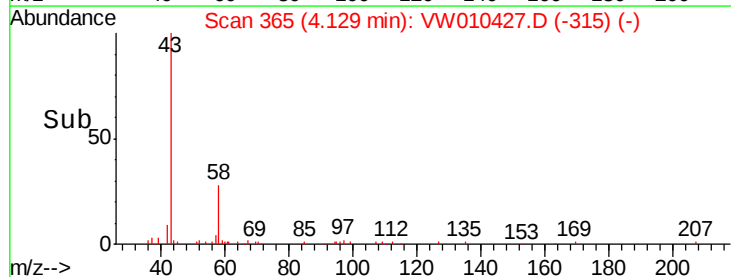
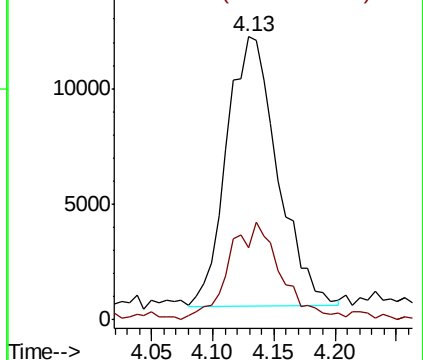
Ion Ratio Lower Upper

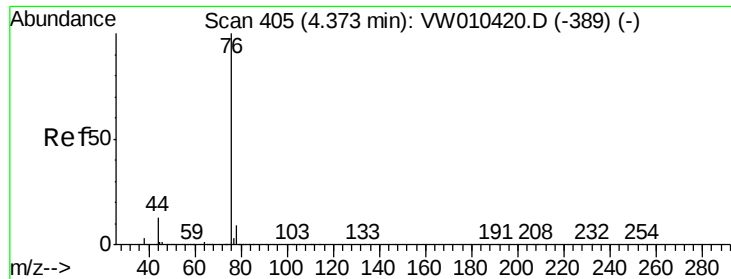
43 100

58 25.6 26.0 39.0#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

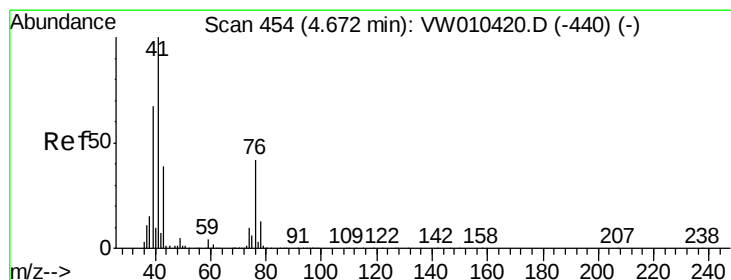
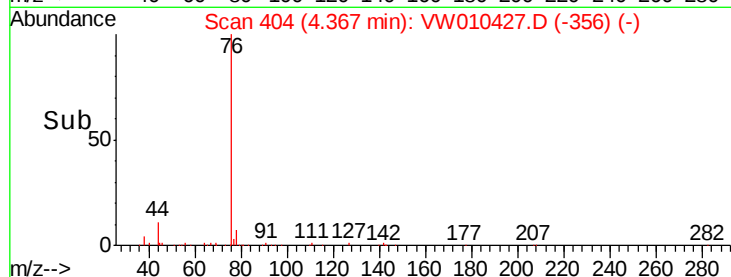
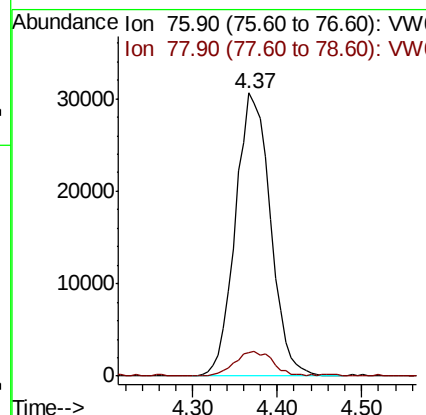
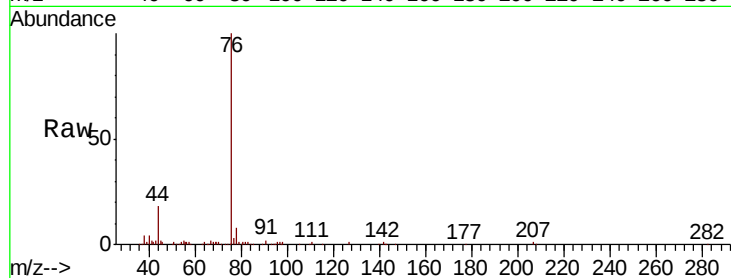




#17
Carbon Disulfide
Concen: 4.902 ug/l
RT: 4.37 min Scan# 404
Delta R.T. -0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

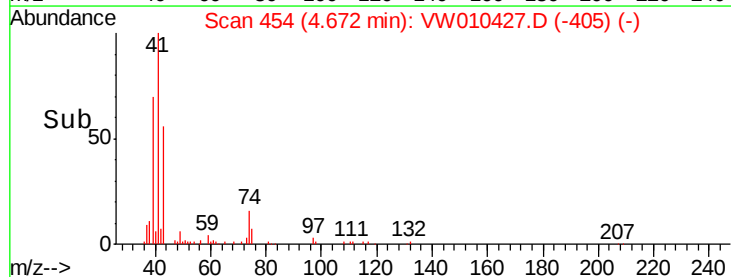
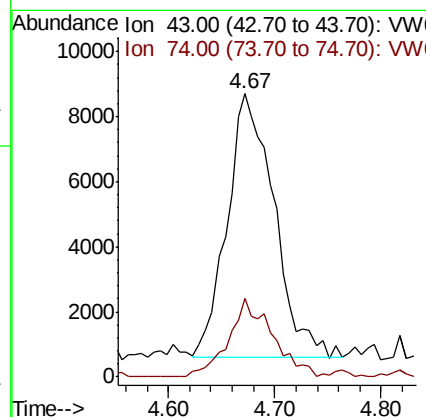
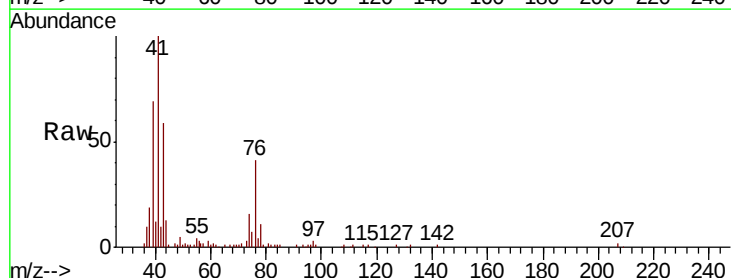
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

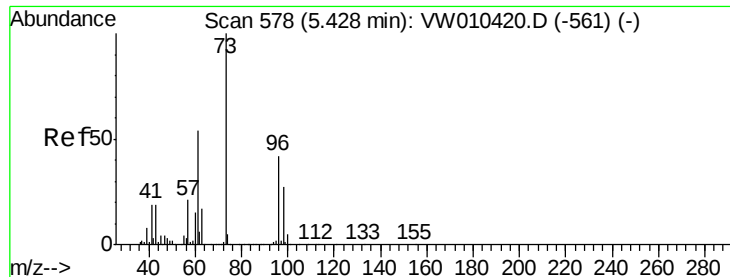
Tgt Ion: 76 Resp: 86038
Ion Ratio Lower Upper
76 100
78 8.0 7.1 10.7



#18
Methyl Acetate
Concen: 6.732 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion: 43 Resp: 25048
Ion Ratio Lower Upper
43 100
74 27.6 21.2 31.8

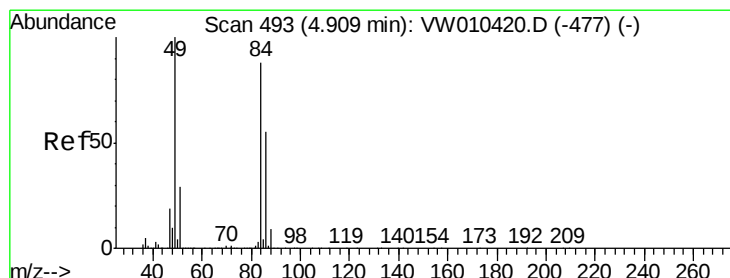
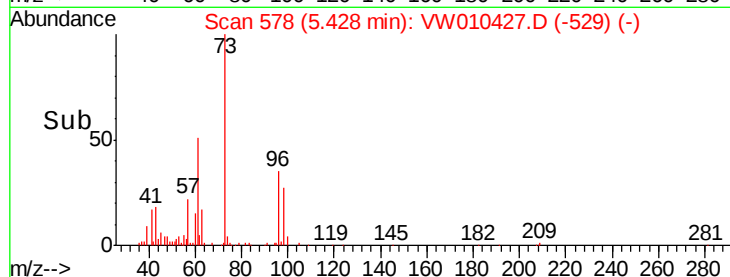
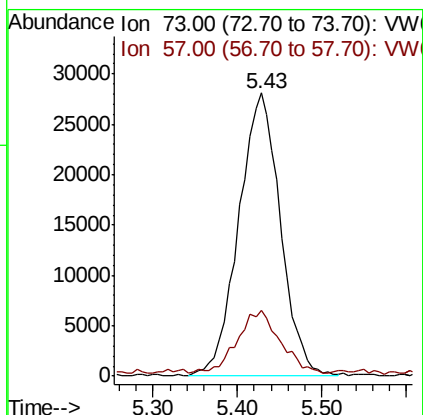
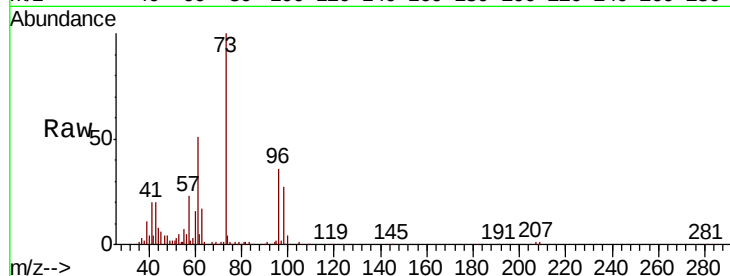




#19
Methyl tert-butyl Ether
Concen: 5.362 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

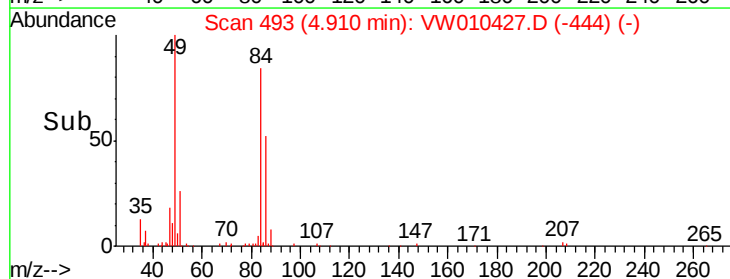
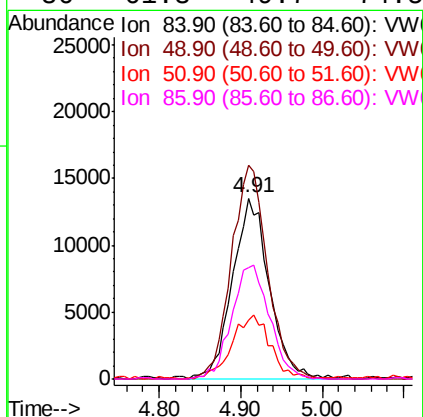
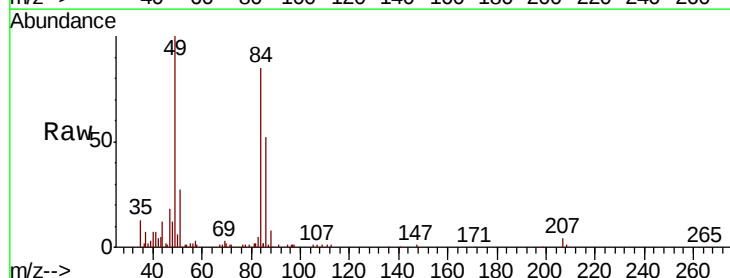
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

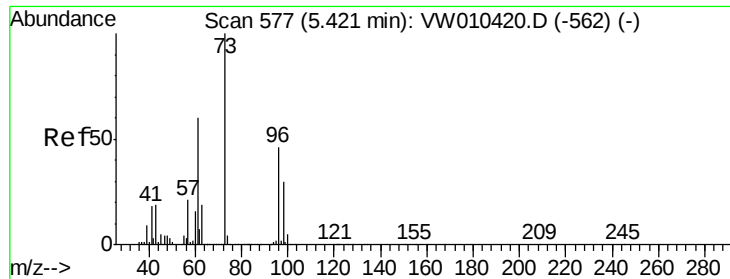
Tgt Ion: 73 Resp: 94526
Ion Ratio Lower Upper
73 100
57 21.8 17.0 25.4



#20
Methylene Chloride
Concen: 3.175 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion: 84 Resp: 42224
Ion Ratio Lower Upper
84 100
49 118.2 90.6 135.8
51 32.0 26.6 40.0
86 61.3 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 4.918 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

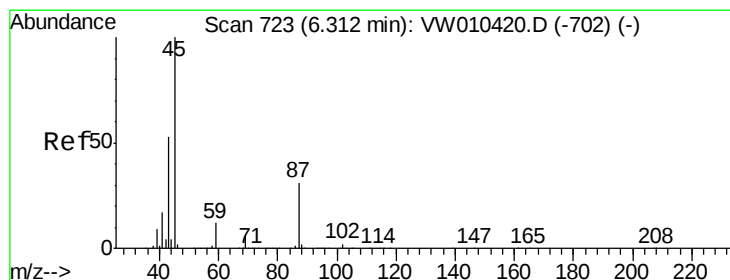
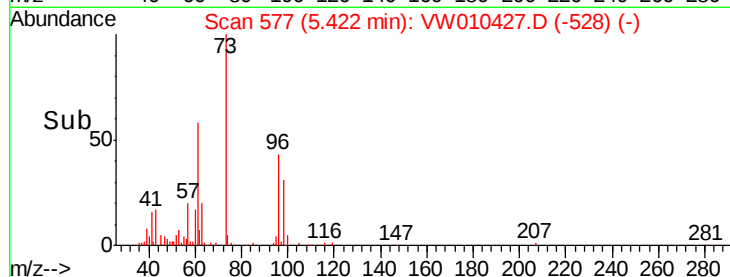
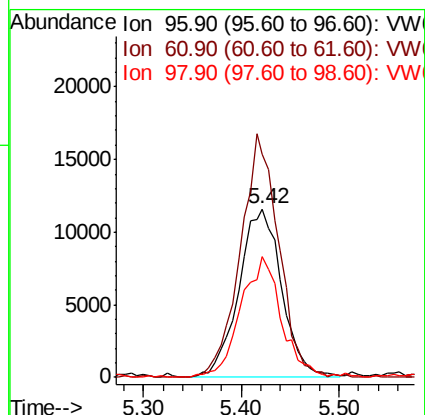
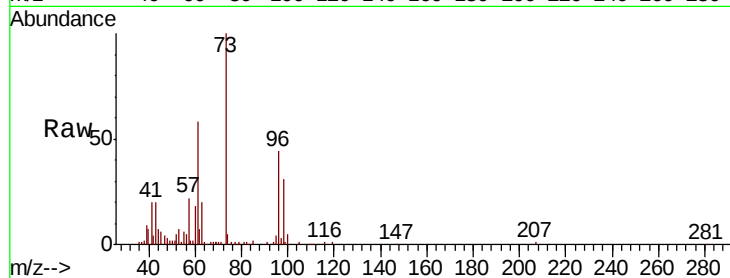
Tgt Ion: 96 Resp: 35255

Ion Ratio Lower Upper

96 100

61 132.9 103.9 155.9

98 71.9 51.5 77.3



#22

Diisopropyl ether

Concen: 5.006 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion: 45 Resp: 101861

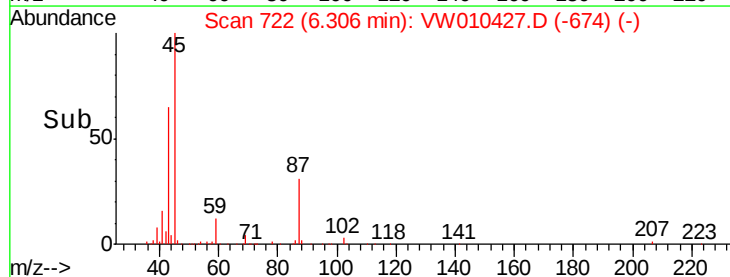
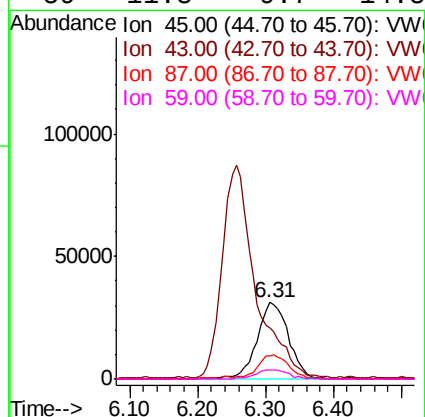
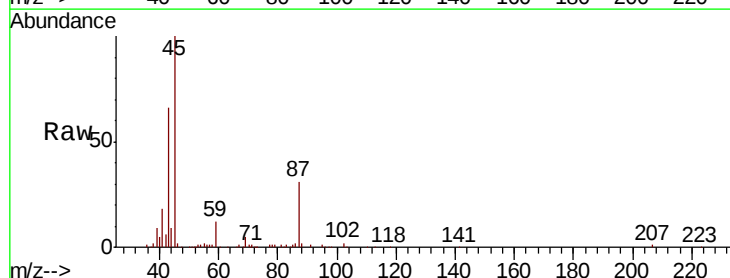
Ion Ratio Lower Upper

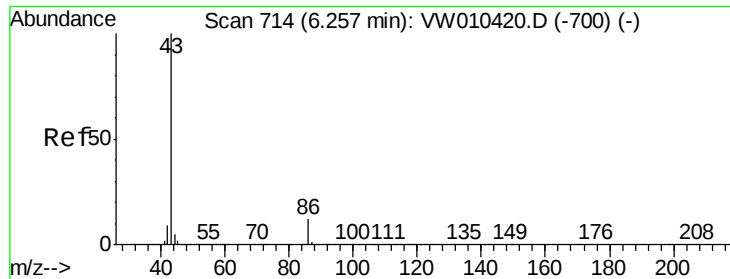
45 100

43 64.0 42.0 63.0#

87 30.5 25.0 37.6

59 11.8 9.7 14.5





#23

Vinyl Acetate

Concen: 23.047 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

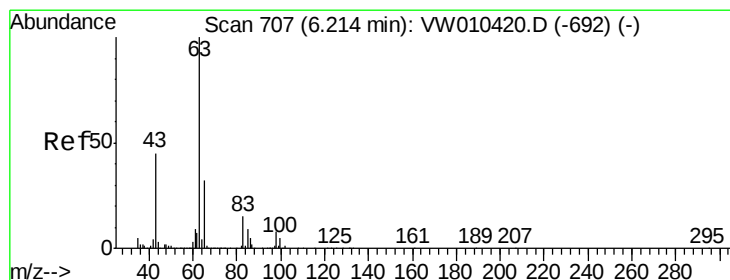
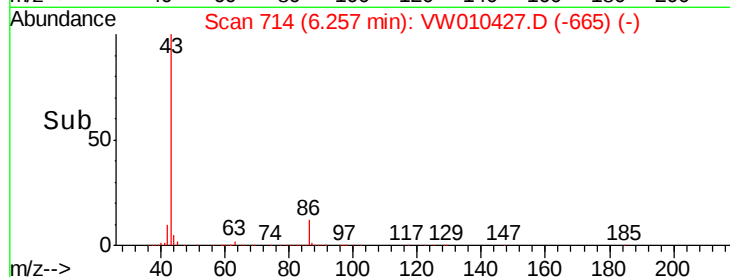
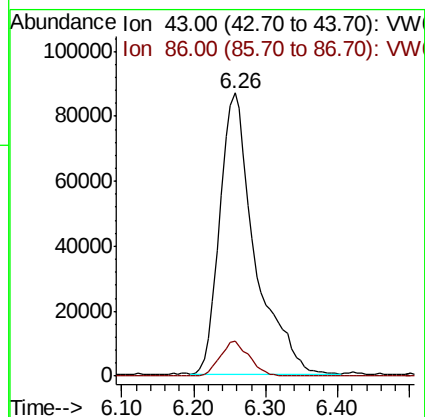
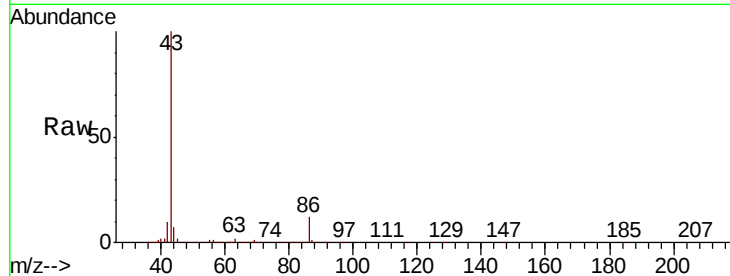
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 43 Resp: 292559

Ion Ratio Lower Upper

43 100

86 12.4 9.7 14.5



#24

1,1-Dichloroethane

Concen: 4.817 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

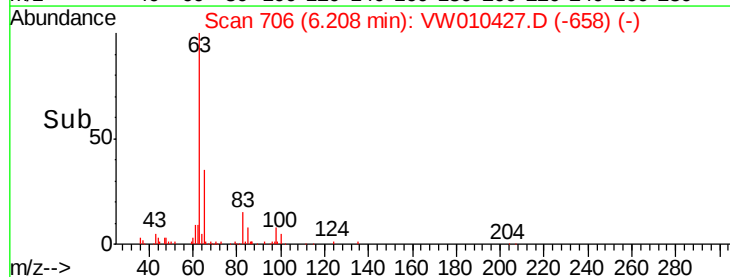
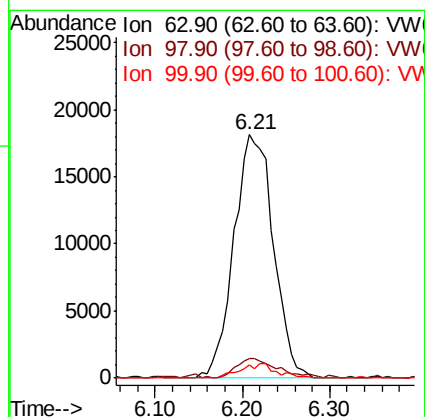
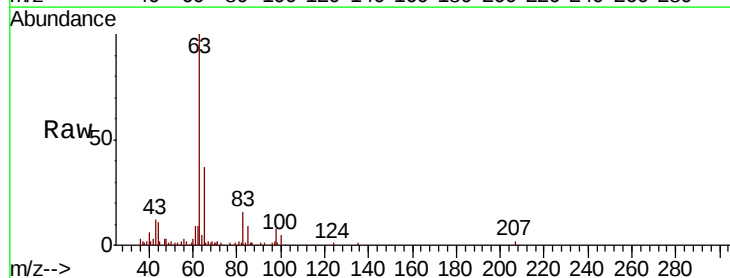
Tgt Ion: 63 Resp: 56753

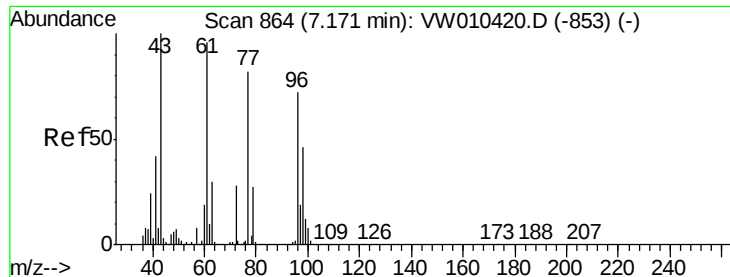
Ion Ratio Lower Upper

63 100

98 7.9 4.0 12.0

100 5.2 2.4 7.2





#25

2-Butanone

Concen: 26.371 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

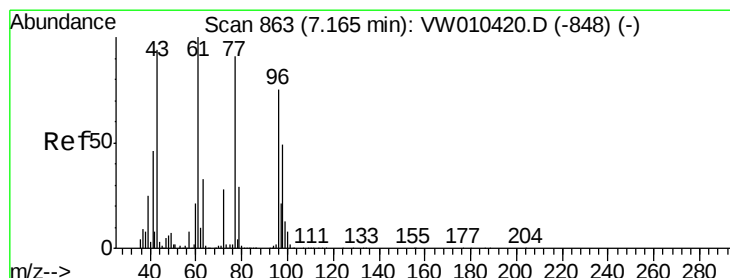
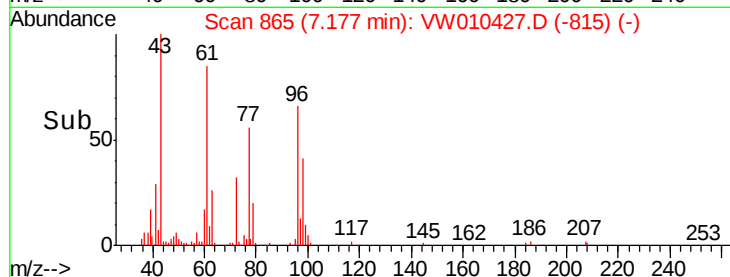
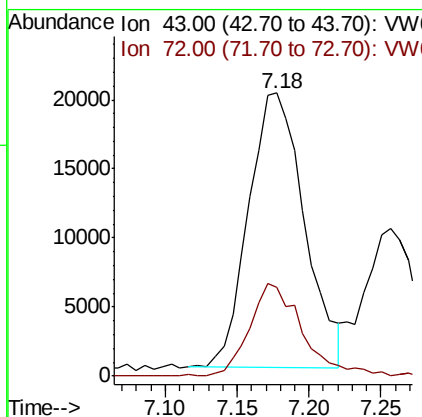
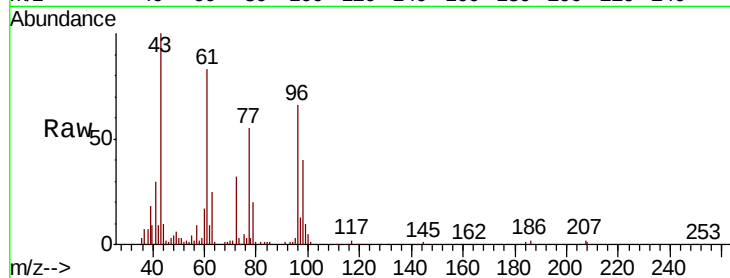
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 43 Resp: 53524

Ion Ratio Lower Upper

43 100

72 32.1 22.6 33.8



#26

2,2-Dichloropropane

Concen: 4.098 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW010427.D

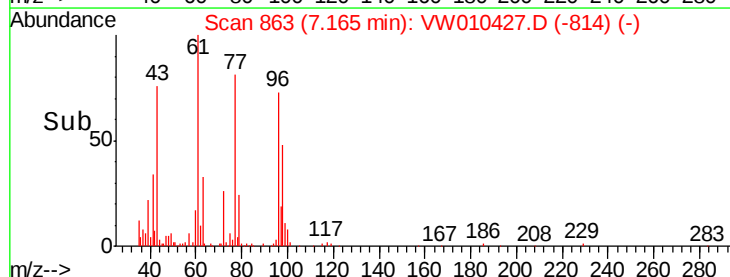
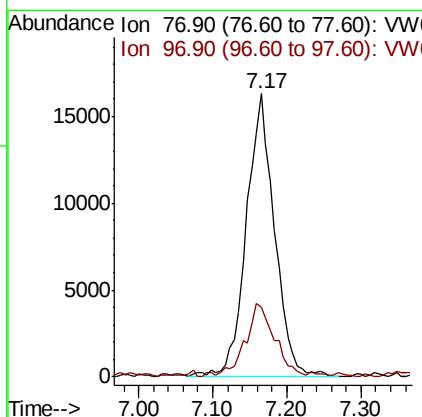
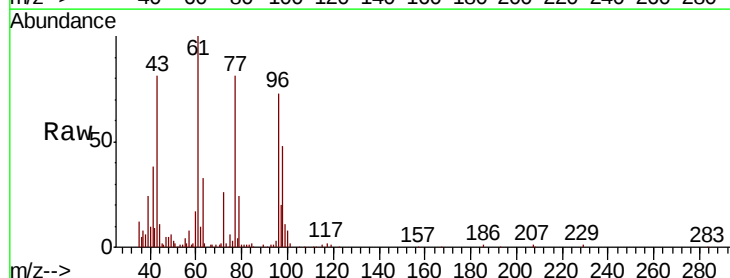
Acq: 17 May 2019 23:39

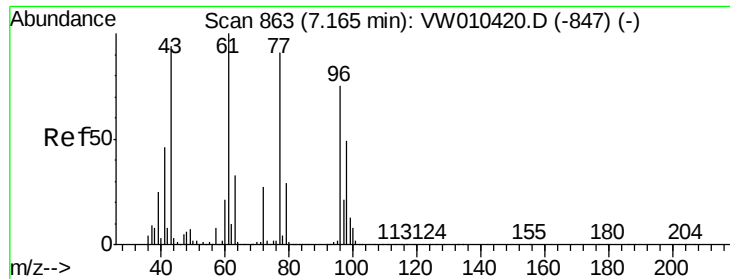
Tgt Ion: 77 Resp: 43568

Ion Ratio Lower Upper

77 100

97 26.8 11.7 35.1



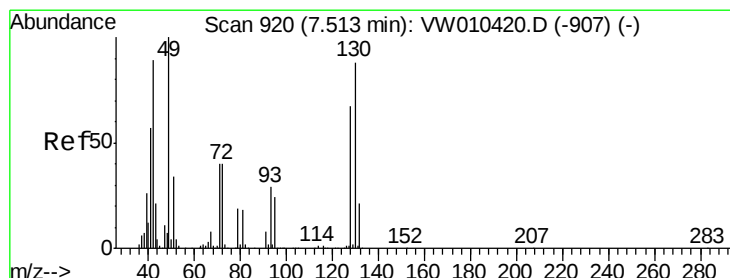
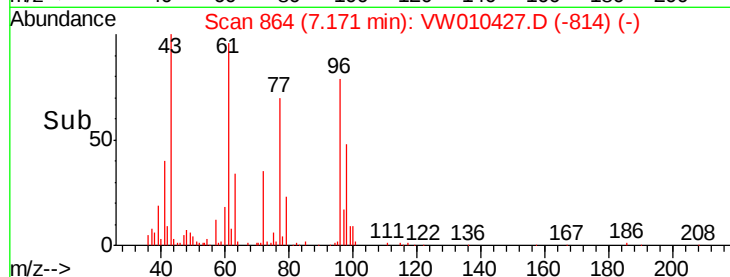
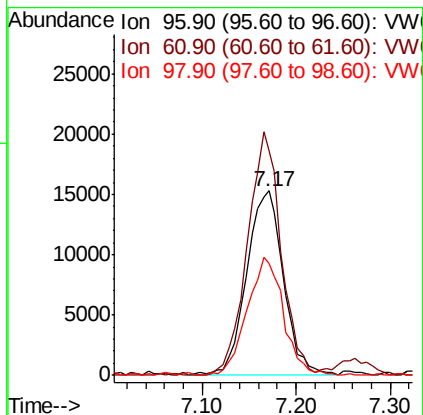
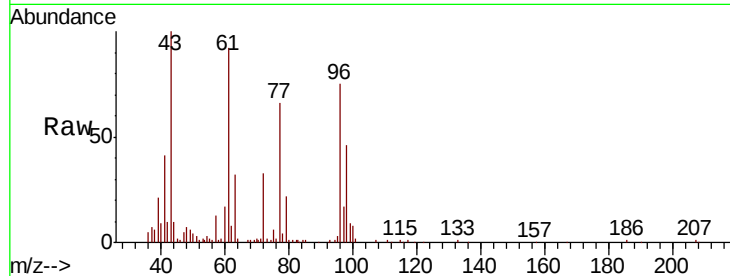


#27

cis-1,2-Dichloroethene
Concen: 5.228 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

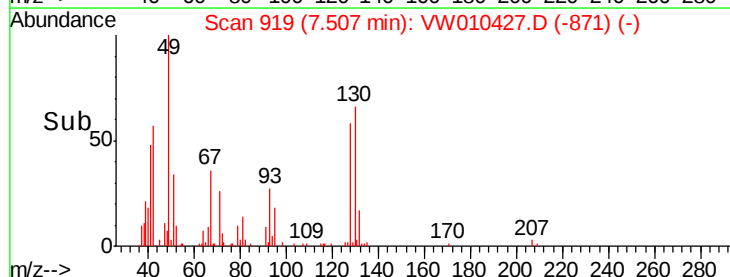
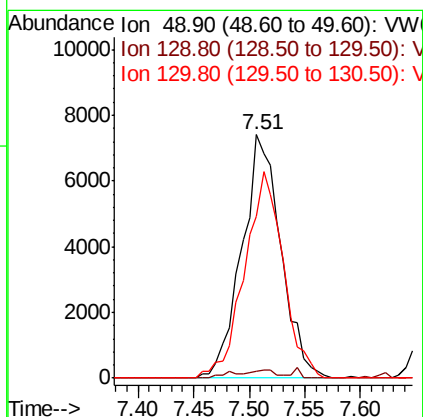
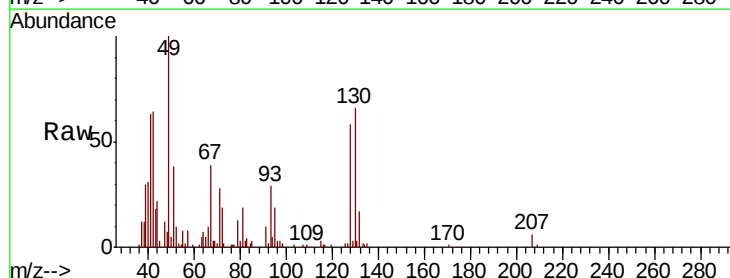
Tgt Ion: 96 Resp: 42034
Ion Ratio Lower Upper
96 100
61 120.2 0.0 266.4
98 62.8 0.0 129.6

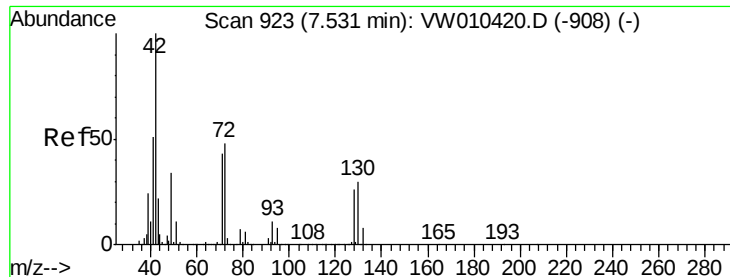


#28

Bromochloromethane
Concen: 4.063 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion: 49 Resp: 17985
Ion Ratio Lower Upper
49 100
129 2.3 0.0 4.6
130 84.2 68.2 102.4





#29

Tetrahydrofuran

Concen: 27.900 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

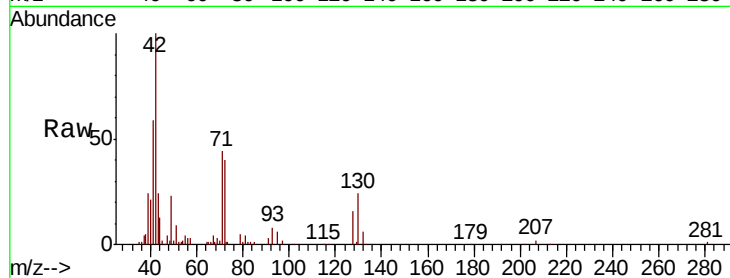
Tgt Ion: 42 Resp: 38321

Ion Ratio Lower Upper

42 100

72 44.5 38.2 57.2

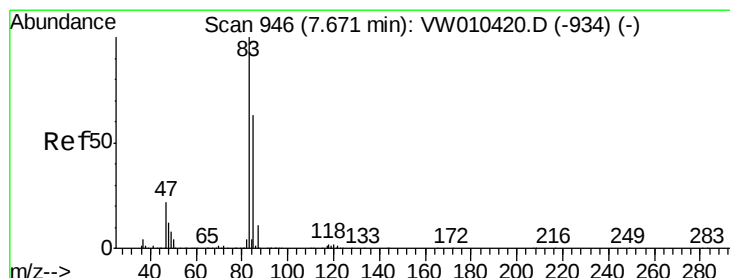
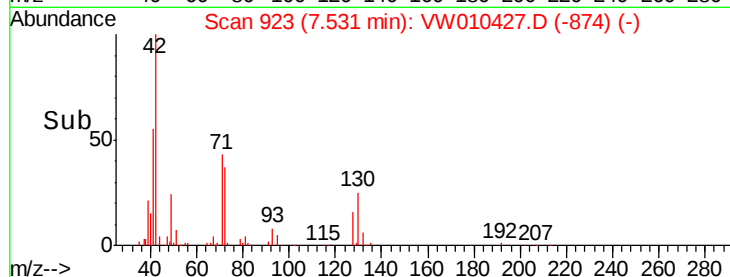
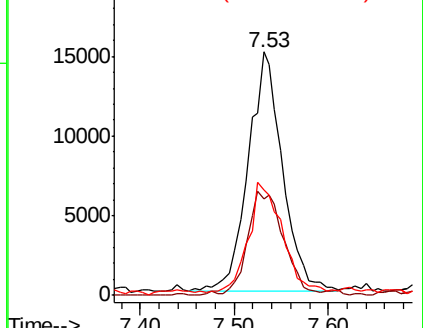
71 45.2 36.0 54.0



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



#30

Chloroform

Concen: 4.930 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW010427.D

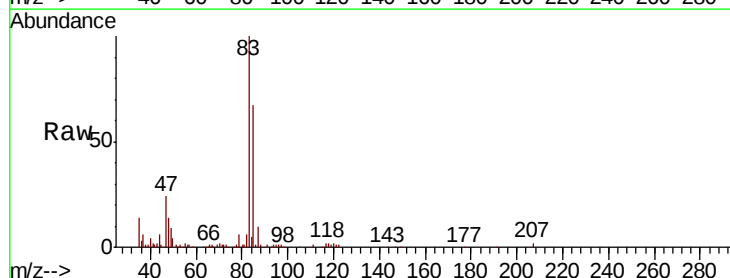
Acq: 17 May 2019 23:39

Tgt Ion: 83 Resp: 61080

Ion Ratio Lower Upper

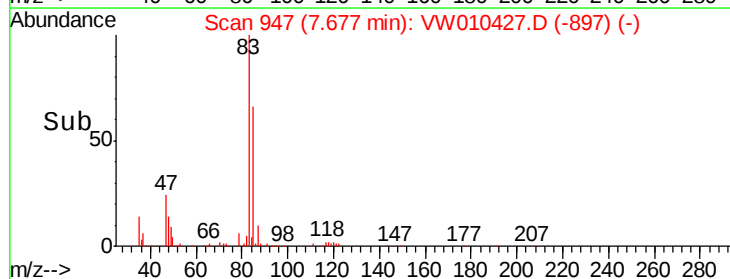
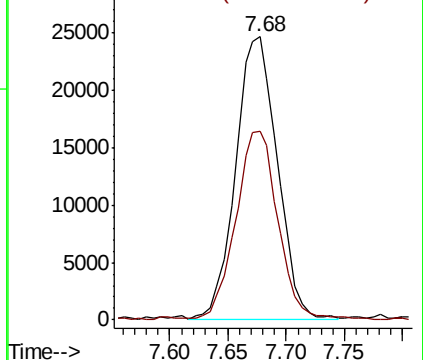
83 100

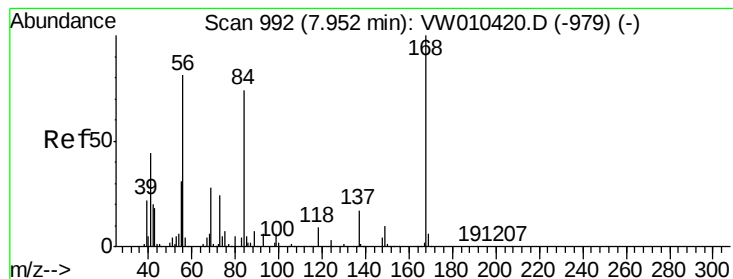
85 66.1 50.8 76.2



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 2.454 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

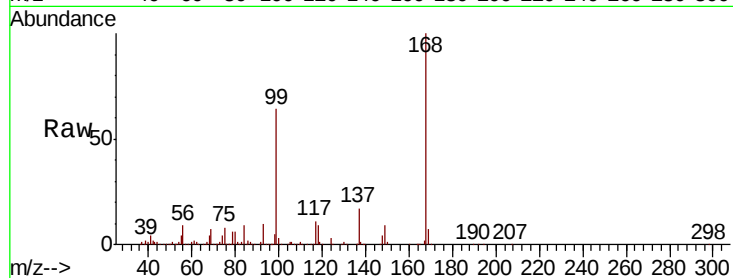
Tgt Ion: 56 Resp: 64709

Ion Ratio Lower Upper

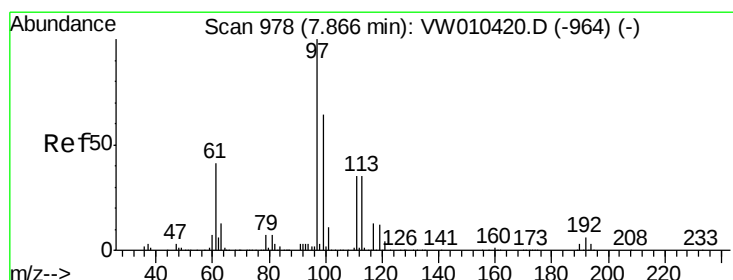
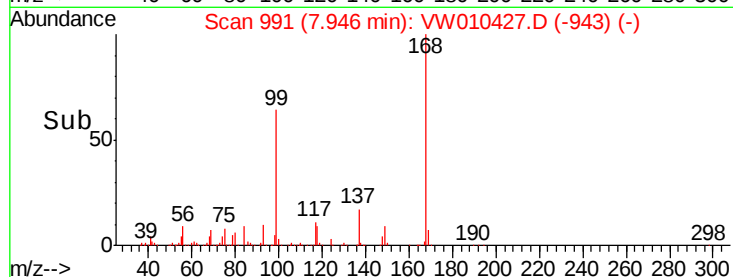
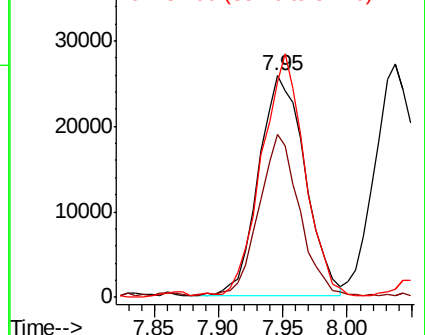
56 100

69 72.8 27.6 41.4#

84 96.9 72.9 109.3



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



#32

1,1,1-Trichloroethane

Concen: 4.777 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

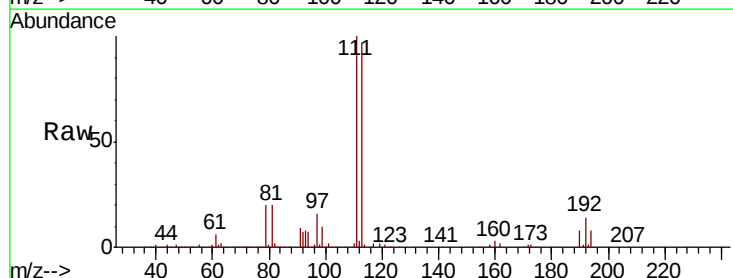
Tgt Ion: 97 Resp: 55815

Ion Ratio Lower Upper

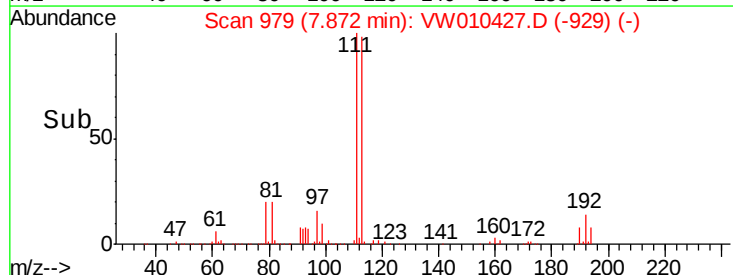
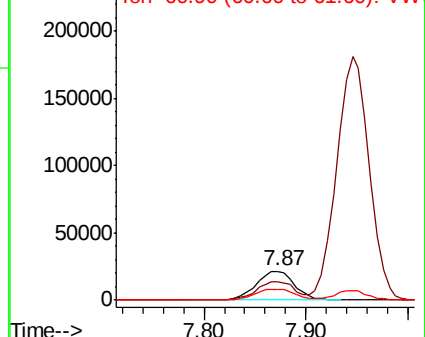
97 100

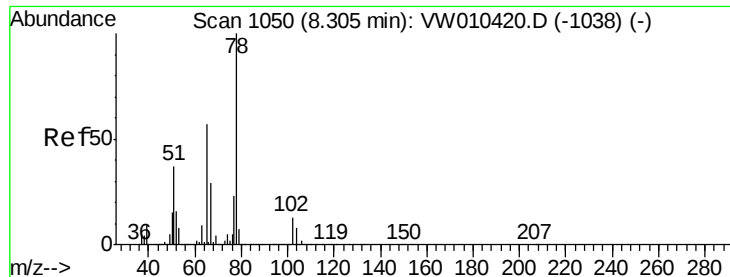
99 65.1 51.4 77.2

61 39.1 32.0 48.0



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

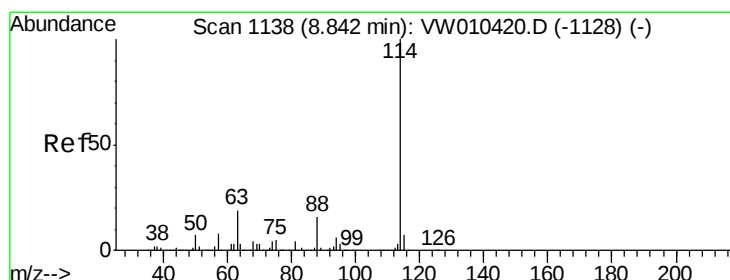
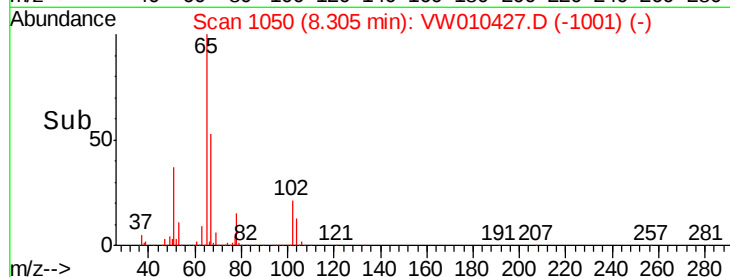
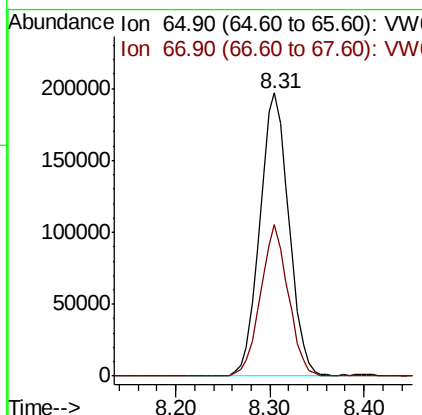
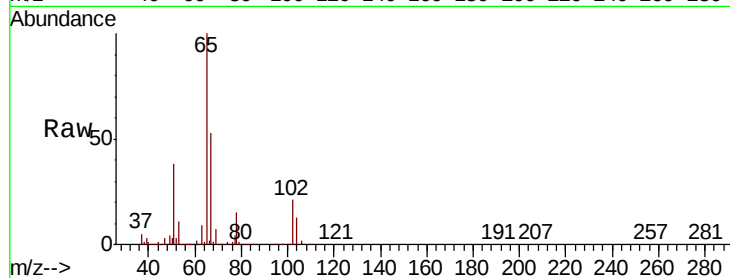




#33
 1,2-Dichloroethane-d4
 Concen: 63.280 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

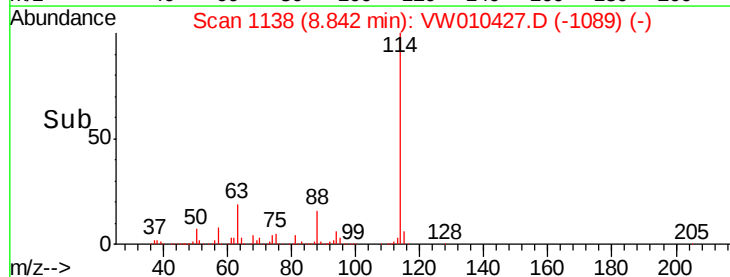
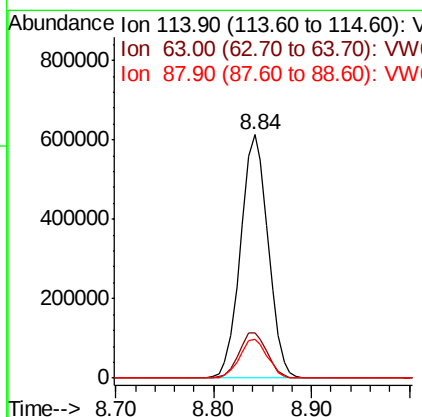
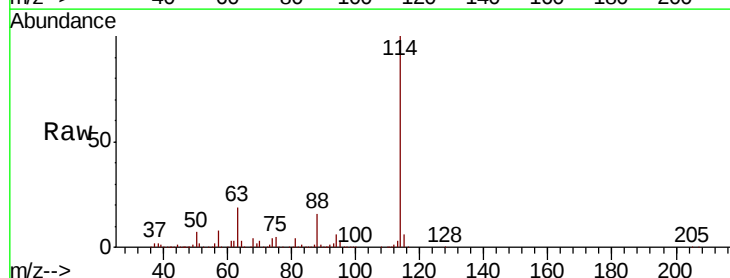
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

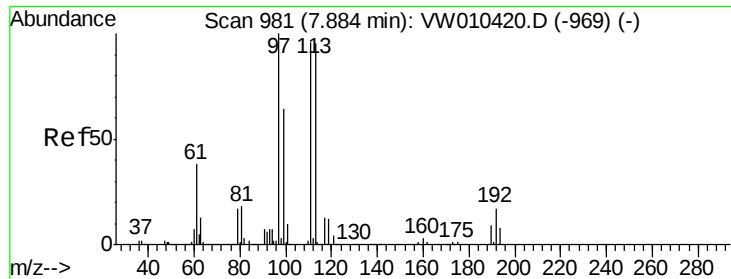
Tgt Ion: 65 Resp: 427739
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion: 114 Resp: 1200468
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.8
 88 16.1 0.0 31.6

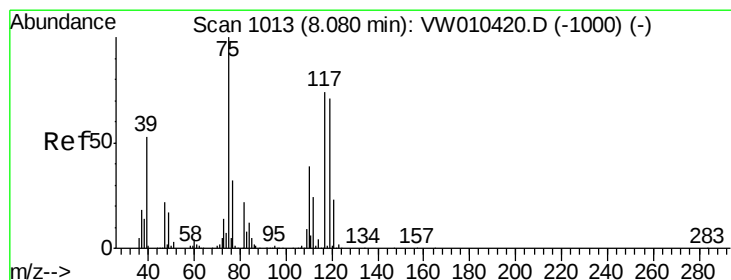
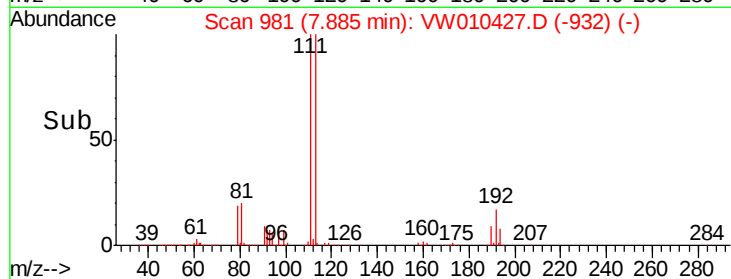
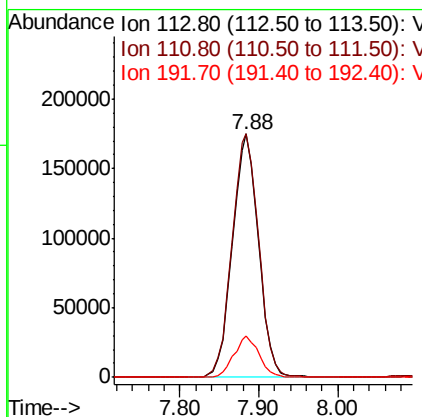
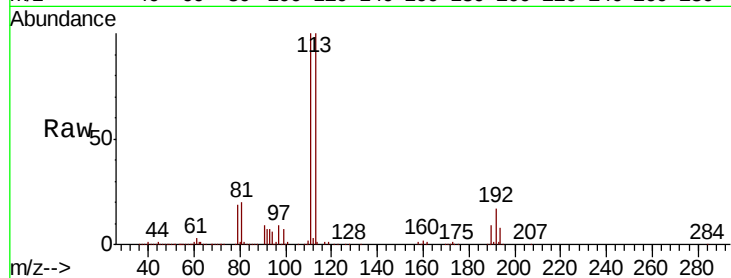




#35
 Dibromofluoromethane
 Concen: 54.034 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

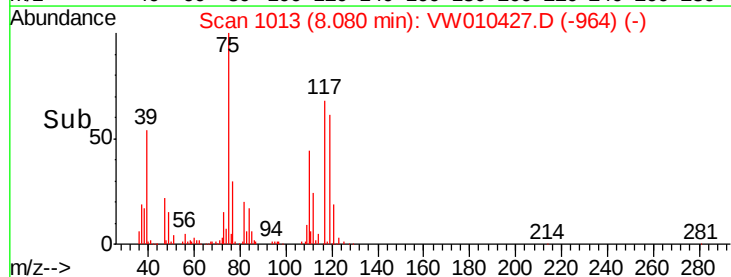
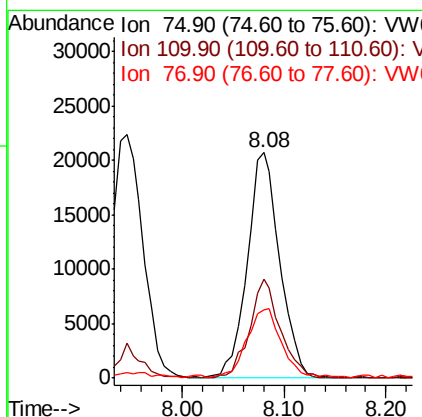
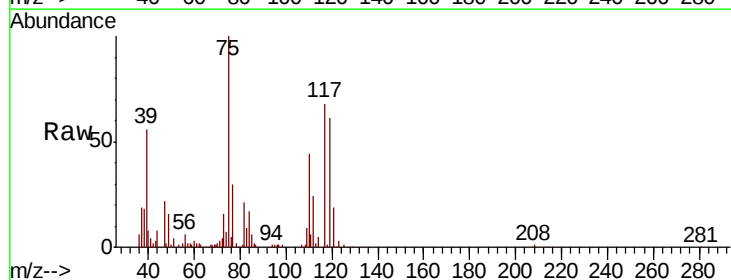
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

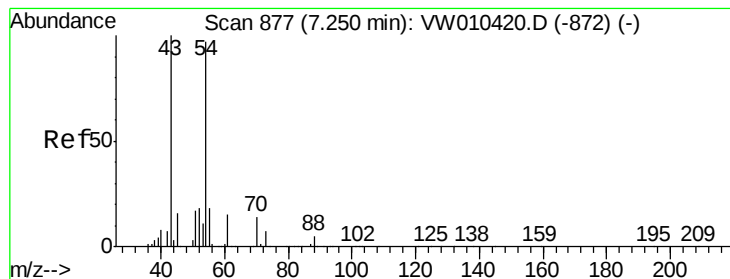
Tgt Ion: 113 Resp: 400629
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.5 123.7
 192 16.5 14.2 21.4



#36
 1,1-Dichloropropene
 Concen: 4.334 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion: 75 Resp: 46063
 Ion Ratio Lower Upper
 75 100
 110 41.6 19.4 58.1
 77 33.5 24.7 37.1





#37

Ethyl Acetate

Concen: 4.937 ug/l

RT: 7.26 min Scan# 878

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

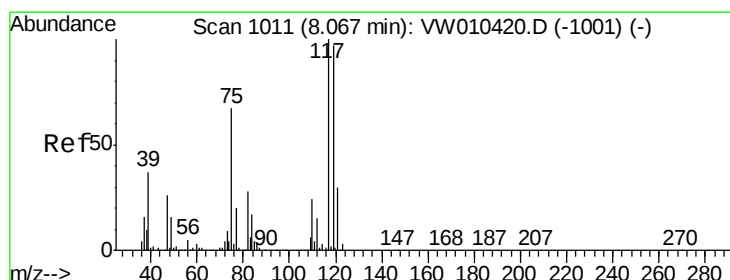
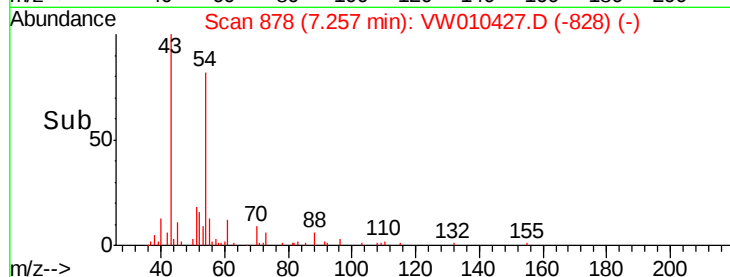
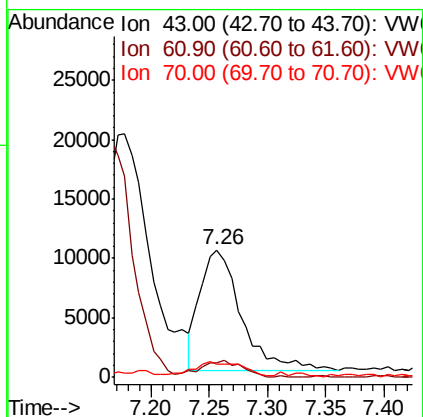
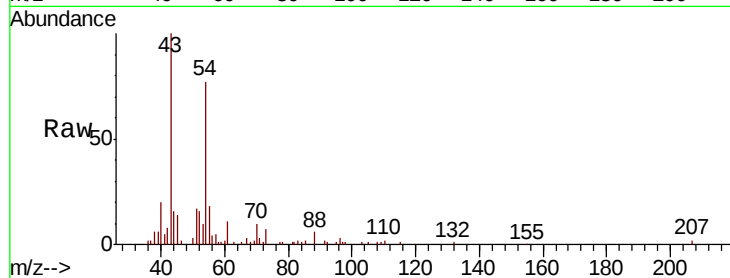
Tgt Ion: 43 Resp: 25173

Ion Ratio Lower Upper

43 100

61 14.2 11.8 17.6

70 13.4 9.4 14.0



#38

Carbon Tetrachloride

Concen: 4.264 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

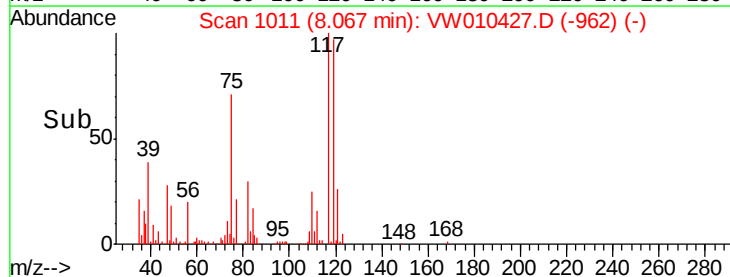
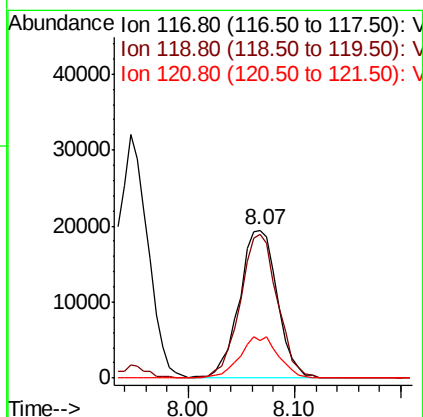
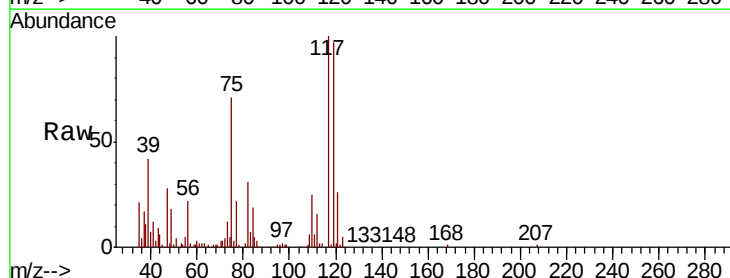
Tgt Ion: 117 Resp: 48903

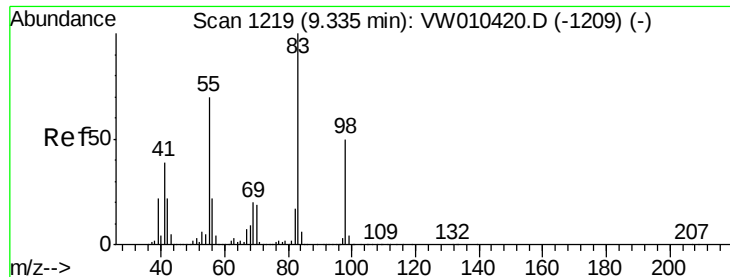
Ion Ratio Lower Upper

117 100

119 97.4 77.8 116.6

121 25.7 24.2 36.2

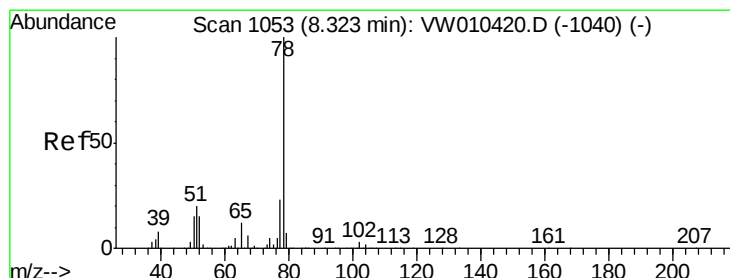
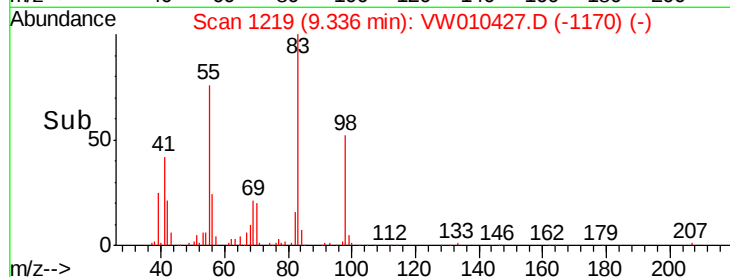
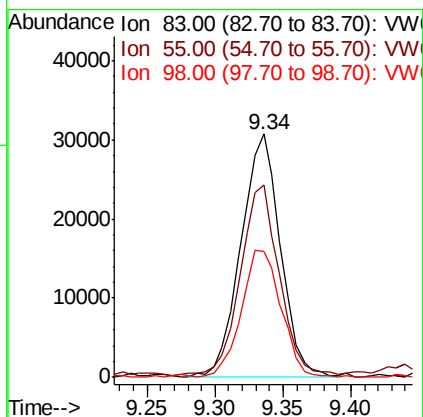
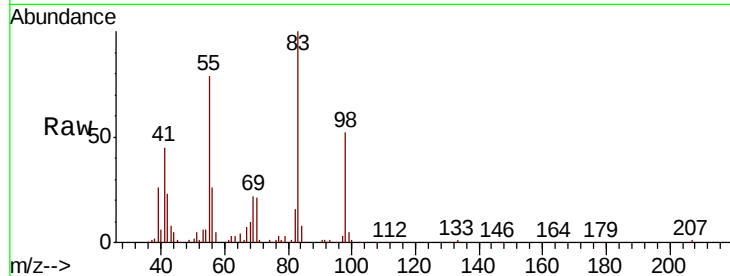




#39
Methylcyclohexane
Concen: 4.356 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

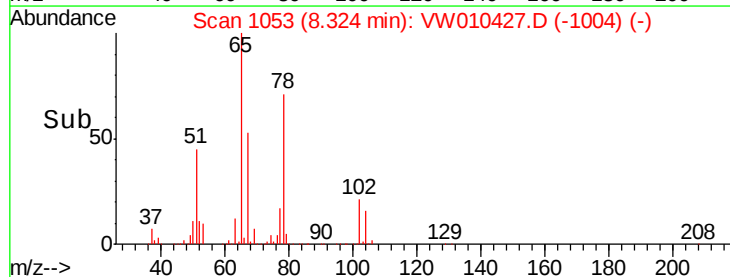
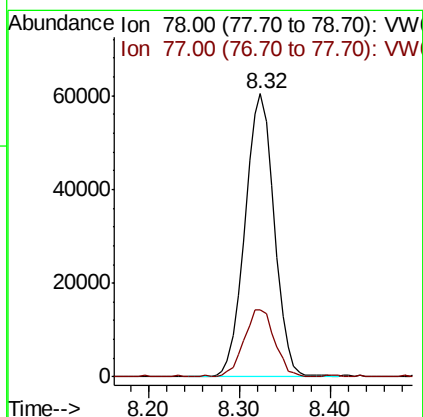
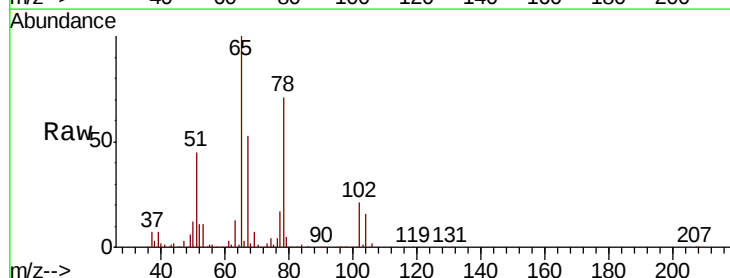
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

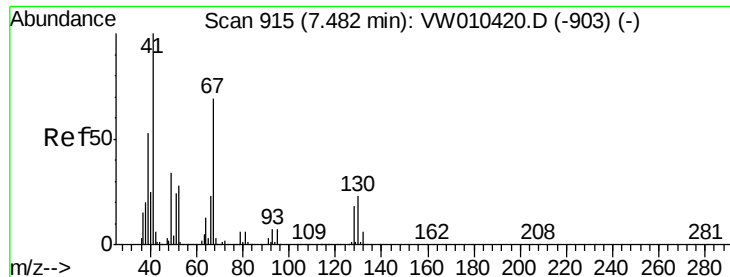
Tgt Ion: 83 Resp: 61824
Ion Ratio Lower Upper
83 100
55 77.8 55.7 83.5
98 51.5 40.2 60.4



#40
Benzene
Concen: 4.444 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion: 78 Resp: 134792
Ion Ratio Lower Upper
78 100
77 23.5 18.7 28.1





#41

Methacrylonitrile

Concen: 5.087 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

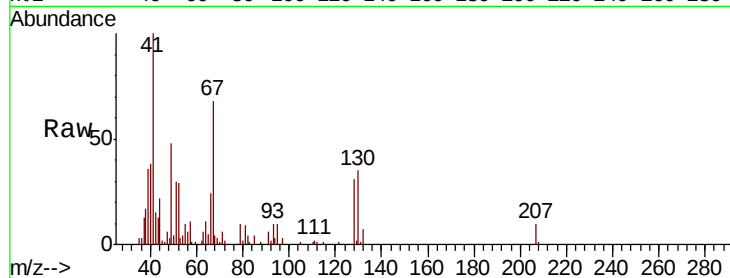
Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tgt Ion:	41	Resp:	15532
Ion	Ratio	Lower	Upper
41	100		
39	48.7	38.1	57.1
67	85.2	55.5	83.3#
52	36.4	22.1	33.1#

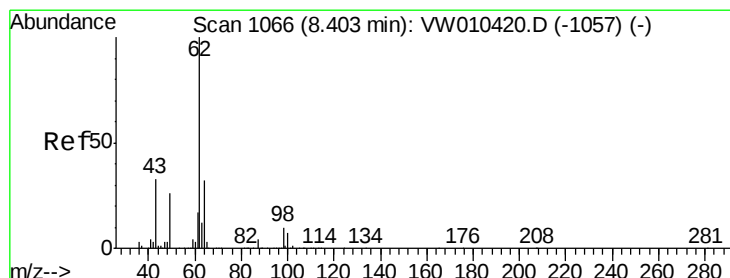
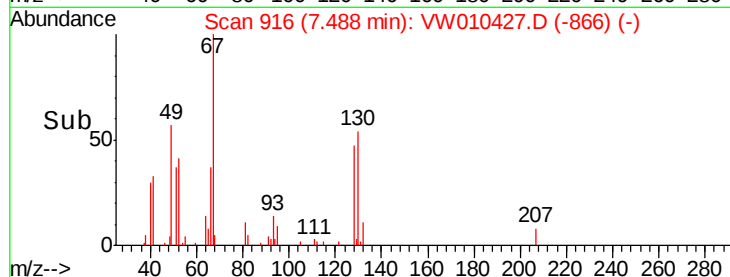
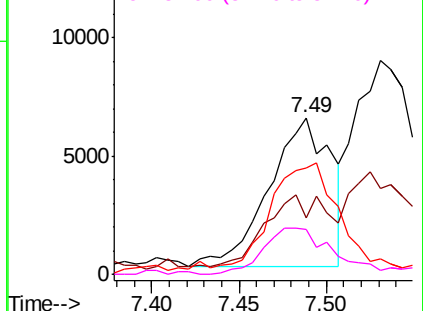


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#42

1,2-Dichloroethane

Concen: 4.867 ug/l

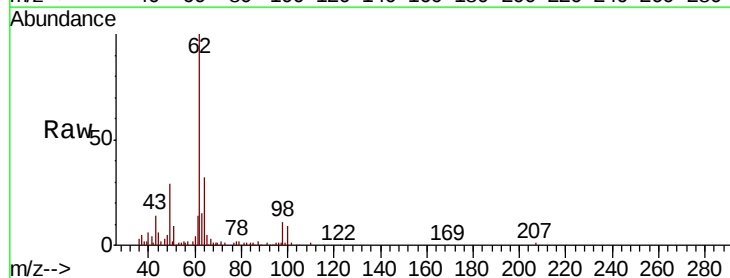
RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW010427.D

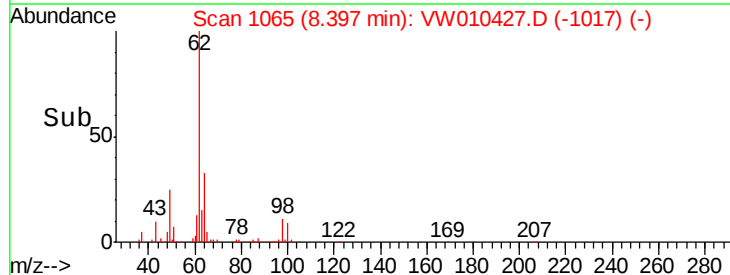
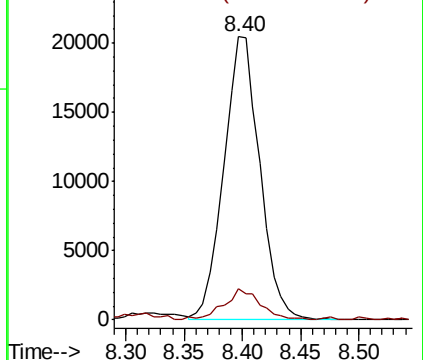
Acq: 17 May 2019 23:39

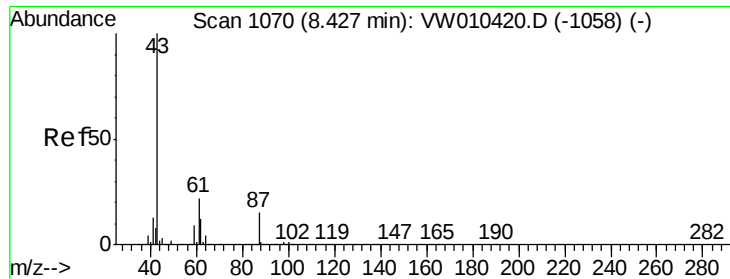
Tgt Ion:	62	Resp:	43982
Ion	Ratio	Lower	Upper
62	100		
98	11.4	0.0	20.2



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 4.870 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

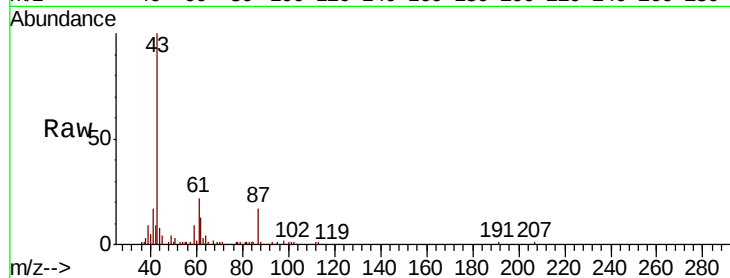
Tgt Ion: 43 Resp: 50570

Ion Ratio Lower Upper

43 100

61 31.7 24.4 36.6

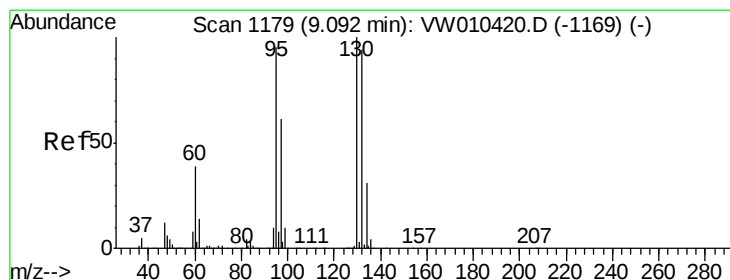
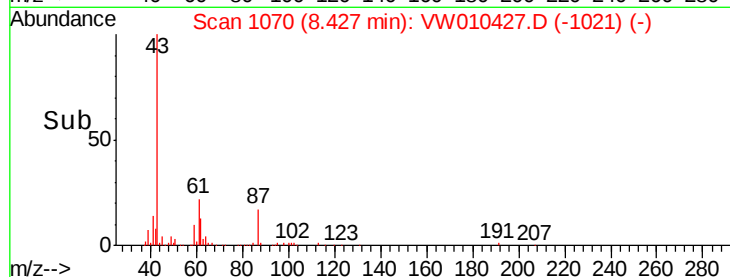
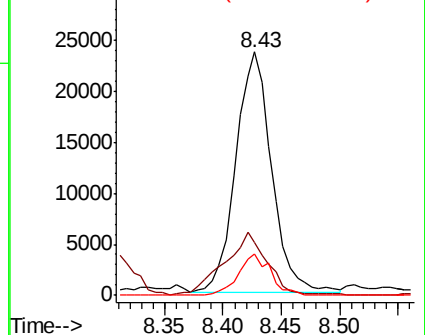
87 15.5 11.8 17.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 4.438 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW010427.D

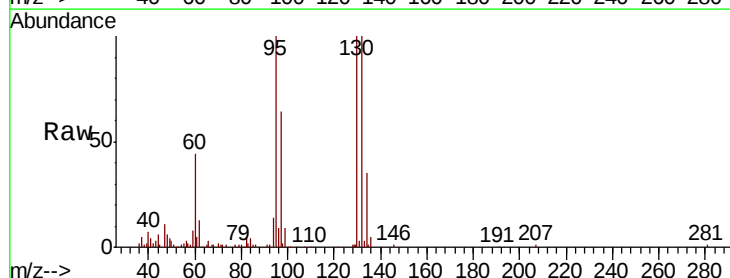
Acq: 17 May 2019 23:39

Tgt Ion: 130 Resp: 38567

Ion Ratio Lower Upper

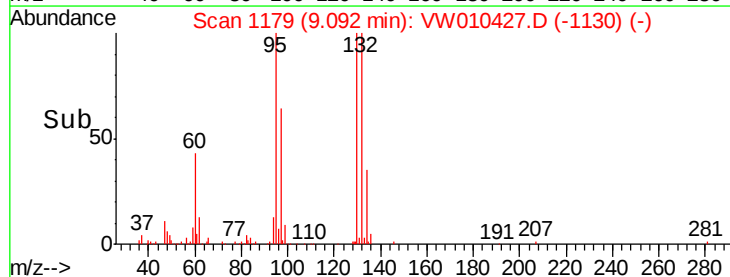
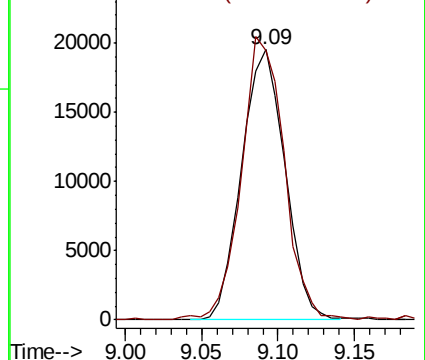
130 100

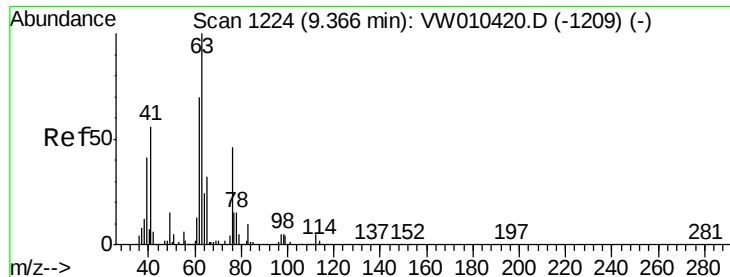
95 98.3 0.0 190.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 4.693 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

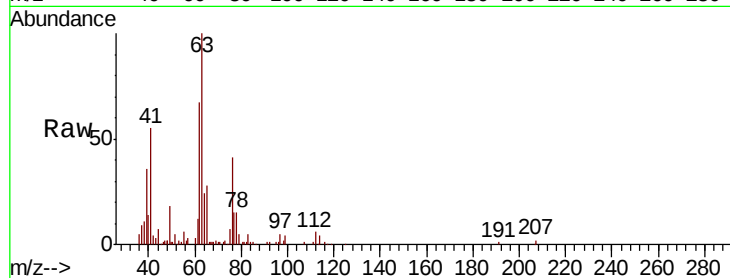
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 63 Resp: 34848

Ion Ratio Lower Upper

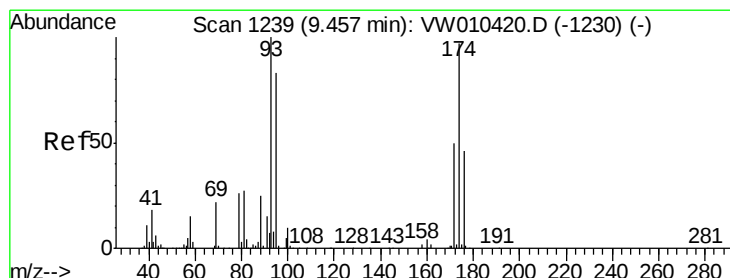
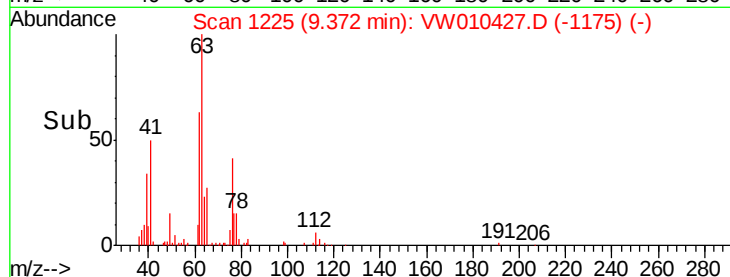
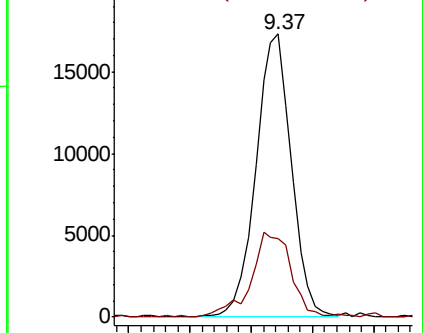
63 100

65 27.9 25.4 38.2



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 4.908 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

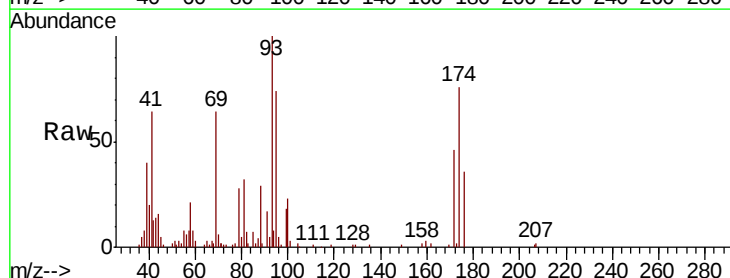
Tgt Ion: 93 Resp: 21527

Ion Ratio Lower Upper

93 100

95 83.8 66.6 100.0

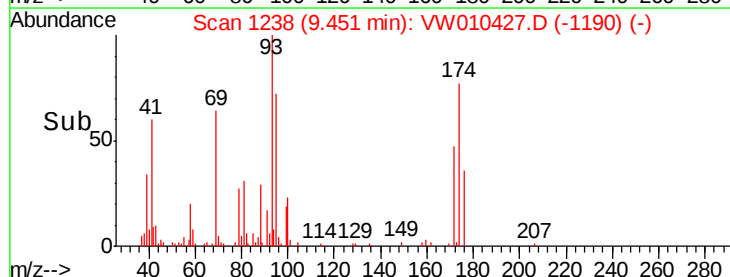
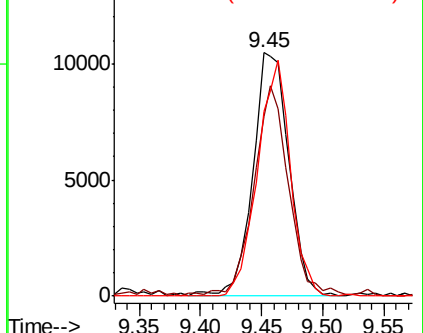
174 88.0 76.4 114.6

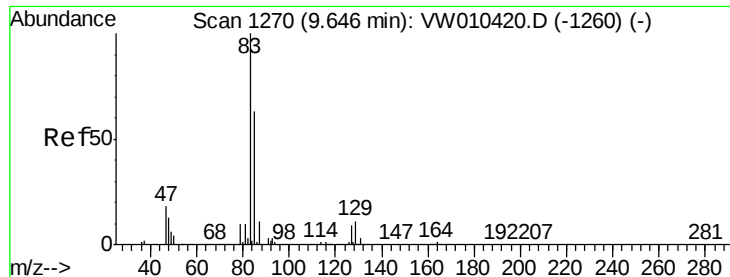


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 4.508 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

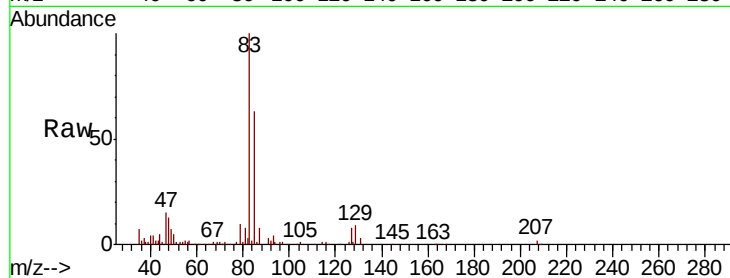
Tgt Ion: 83 Resp: 49129

Ion Ratio Lower Upper

83 100

85 62.3 50.0 75.0

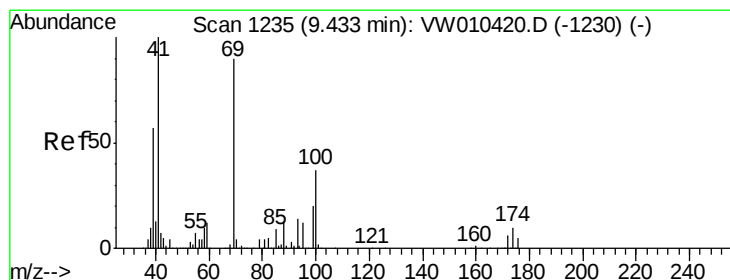
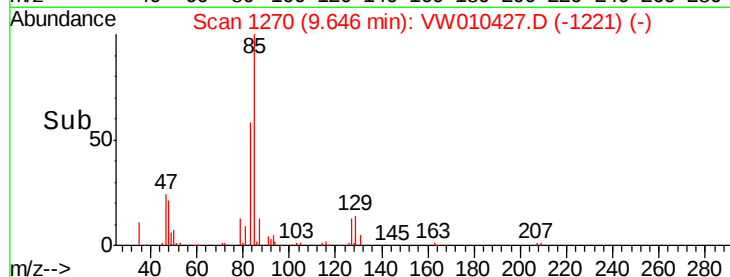
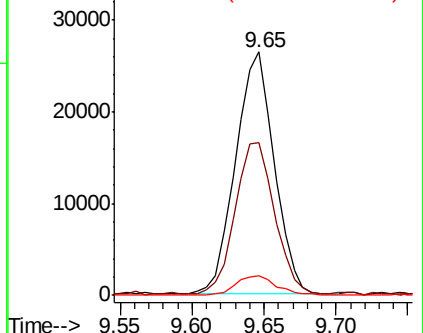
127 8.3 7.3 10.9



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): VW



#48

Methyl methacrylate

Concen: 4.580 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

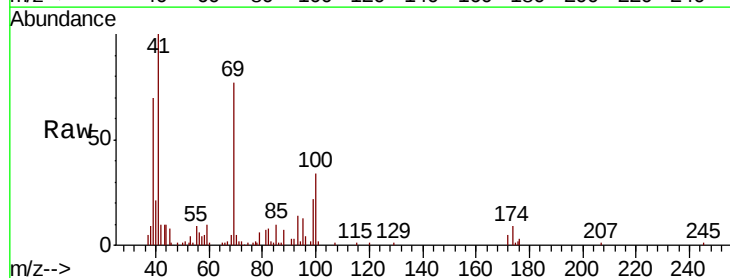
Tgt Ion: 41 Resp: 21916

Ion Ratio Lower Upper

41 100

69 100.6 75.2 112.8

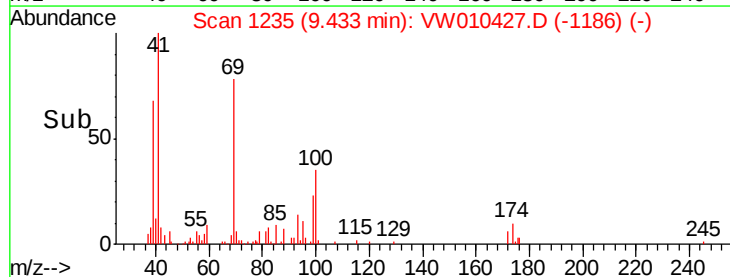
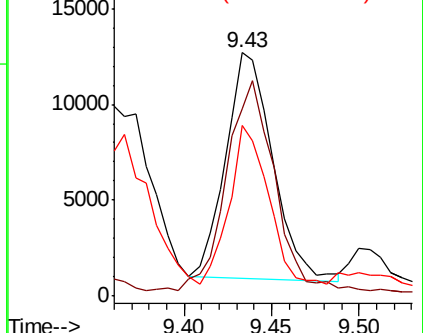
39 65.3 46.8 70.2

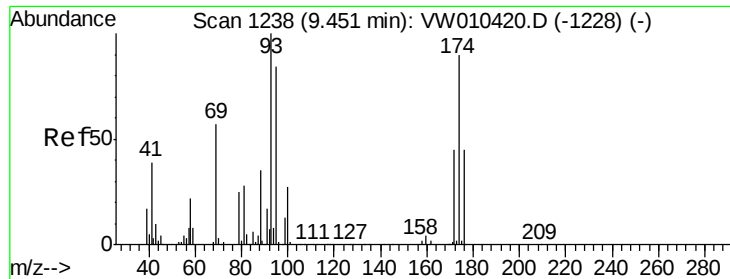


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 102.772 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.01 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

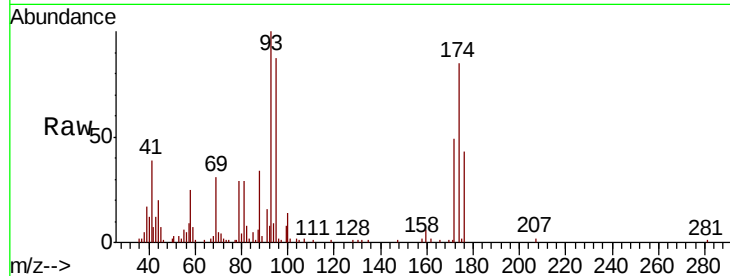
Tgt Ion: 88 Resp: 6671

Ion Ratio Lower Upper

88 100

43 29.6 24.9 37.3

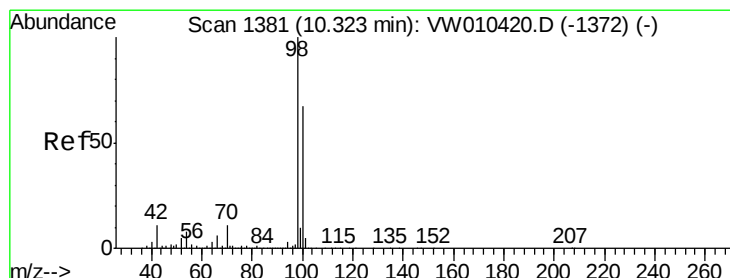
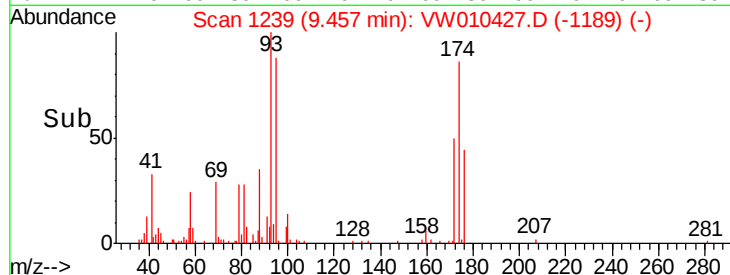
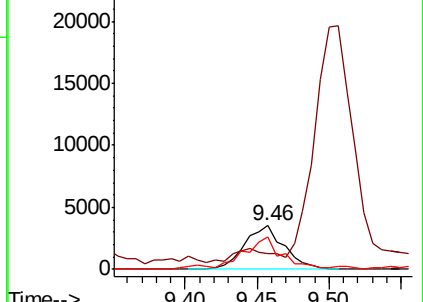
58 76.4 55.0 82.6



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 53.858 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010427.D

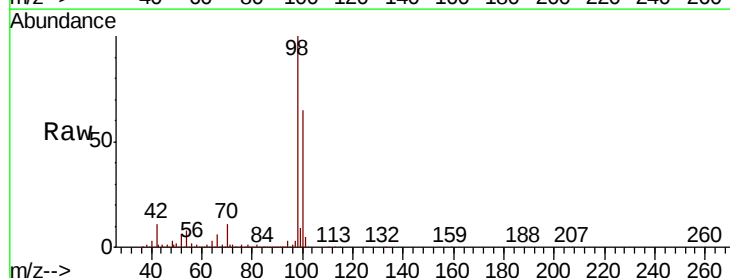
Acq: 17 May 2019 23:39

Tgt Ion: 98 Resp: 1489138

Ion Ratio Lower Upper

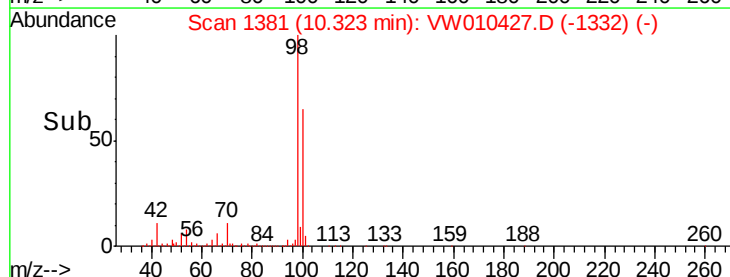
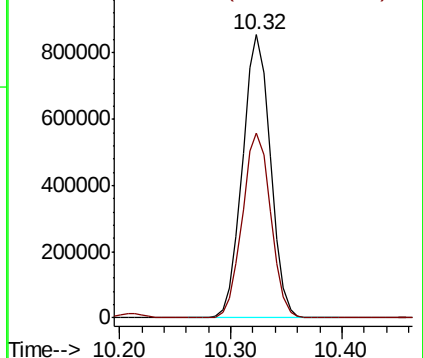
98 100

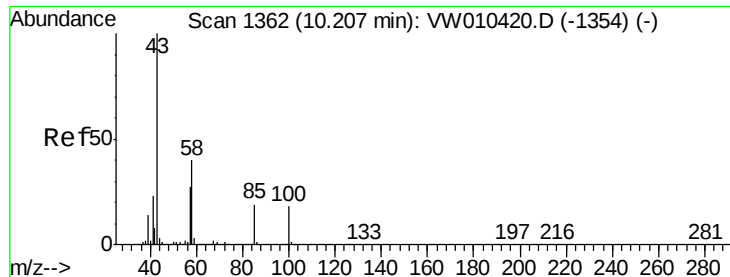
100 66.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

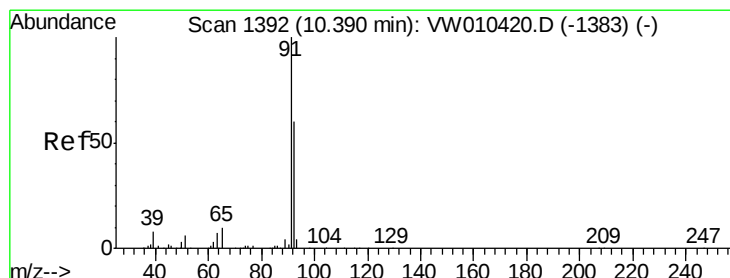
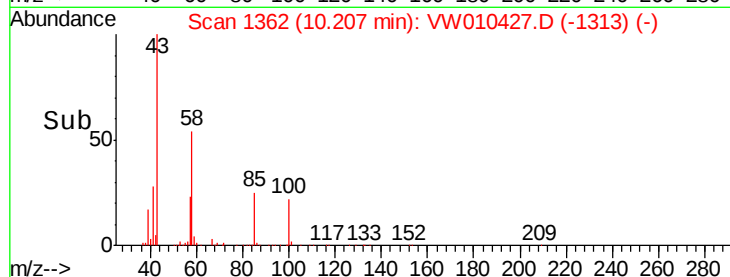
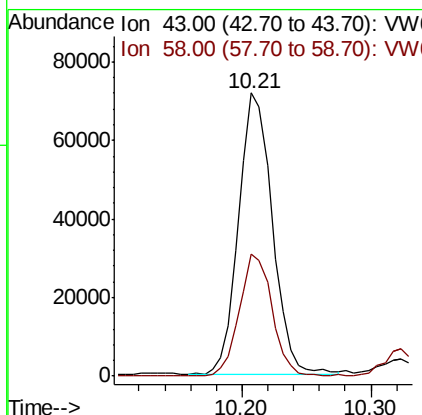
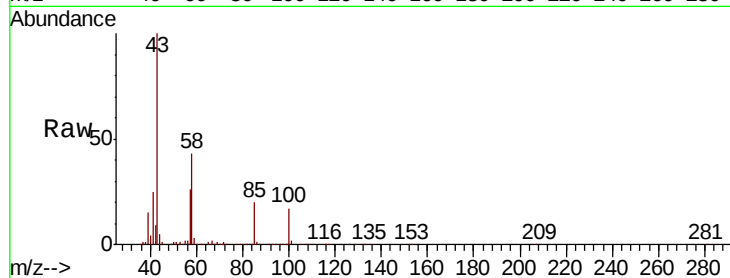




#51
 4-Methyl-2-Pentanone
 Concen: 24.577 ug/l
 RT: 10.21 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

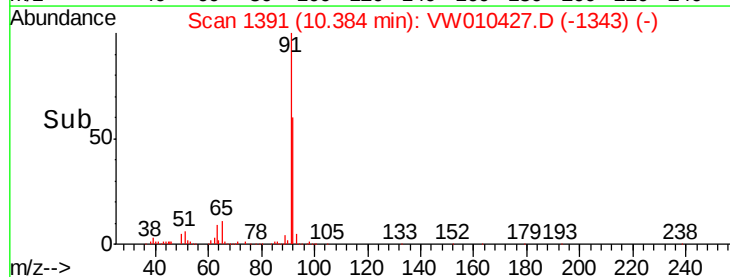
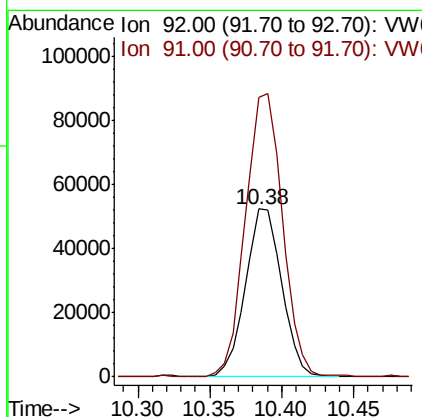
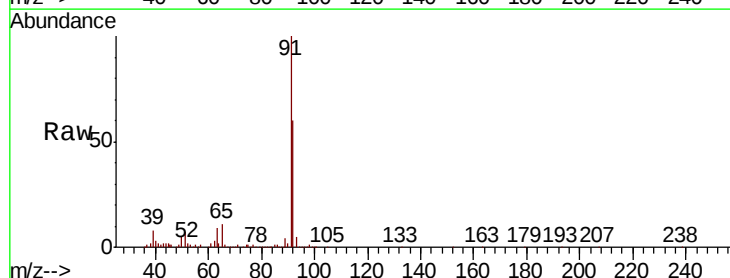
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

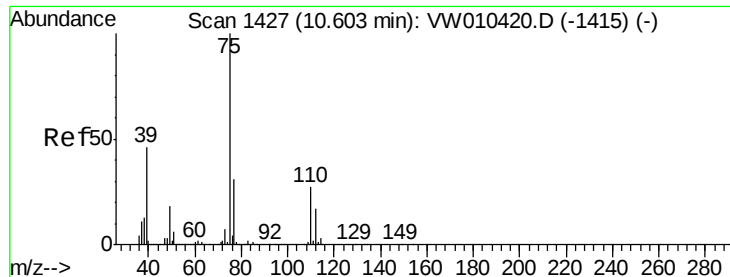
Tgt Ion: 43 Resp: 130544
 Ion Ratio Lower Upper
 43 100
 58 41.7 32.7 49.1



#52
 Toluene
 Concen: 4.510 ug/l
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion: 92 Resp: 90844
 Ion Ratio Lower Upper
 92 100
 91 172.8 135.4 203.0





#53

t-1,3-Dichloropropene

Concen: 4.434 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

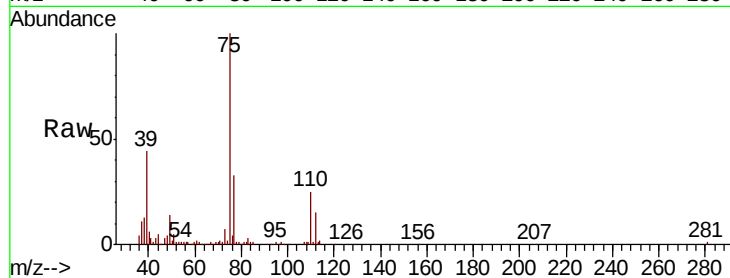
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 75 Resp: 49836

Ion Ratio Lower Upper

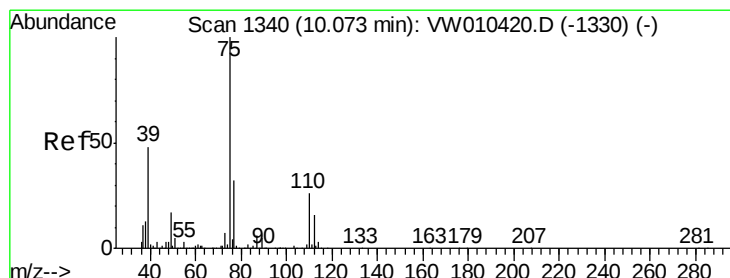
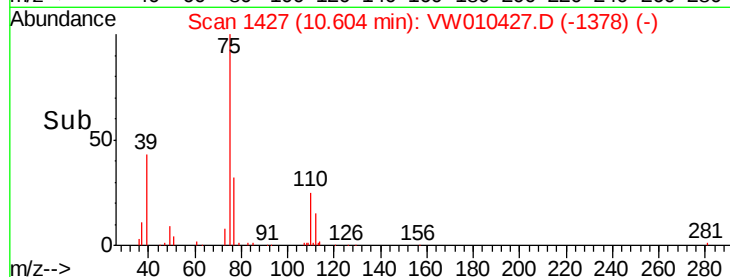
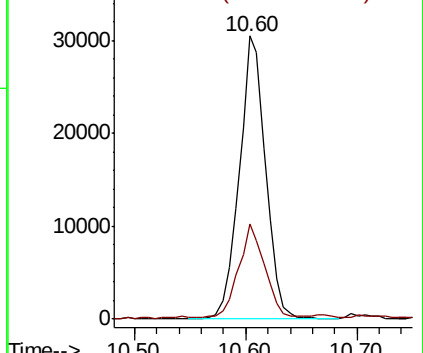
75 100

77 32.9 24.6 37.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW



#54

cis-1,3-Dichloropropene

Concen: 4.399 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

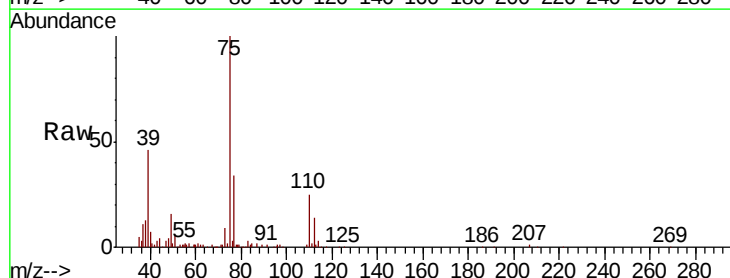
Tgt Ion: 75 Resp: 56056

Ion Ratio Lower Upper

75 100

77 33.4 25.2 37.8

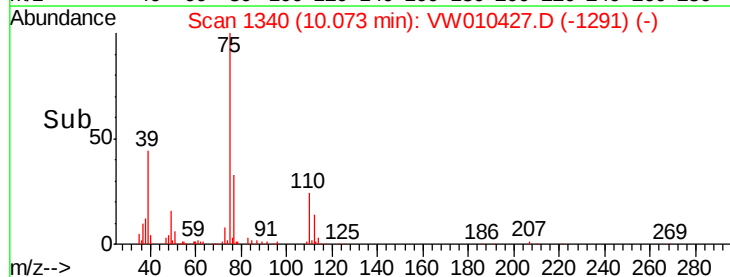
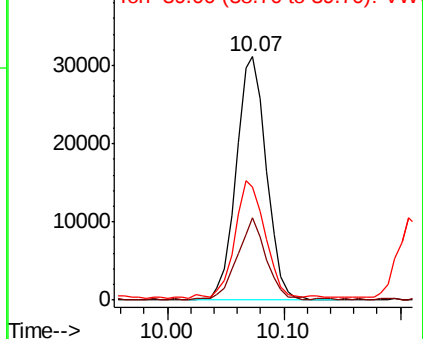
39 45.4 38.1 57.1

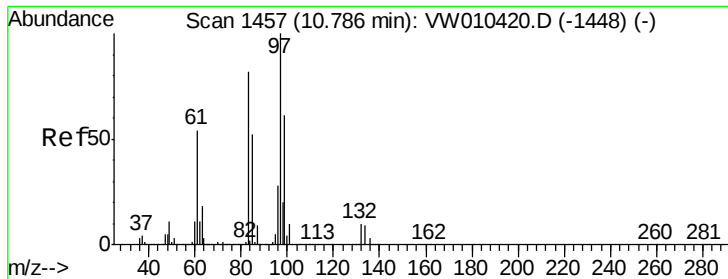


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

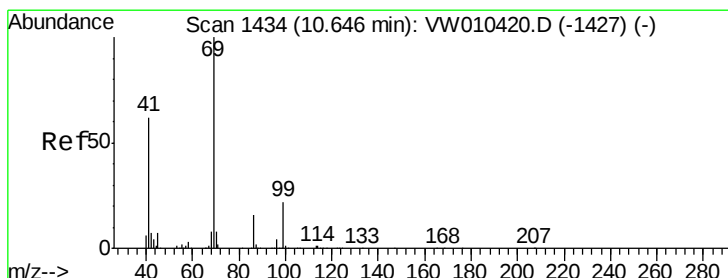
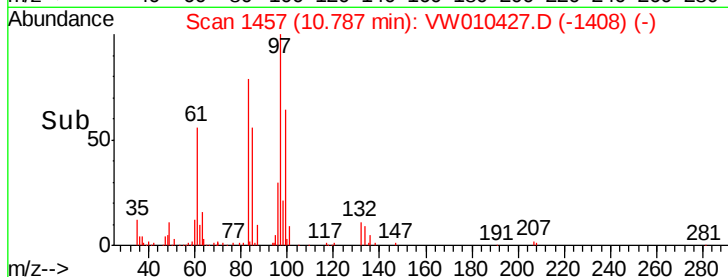
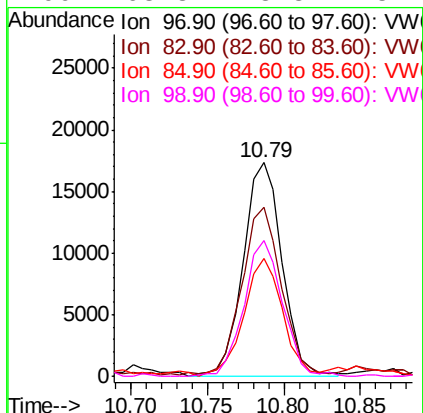
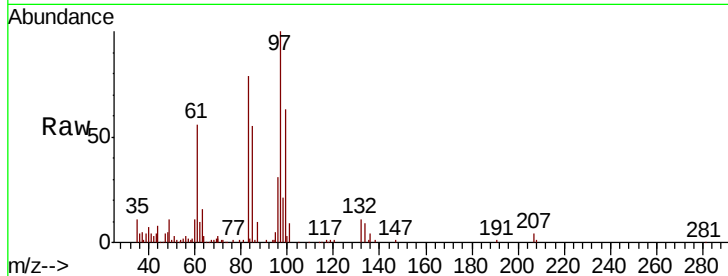




#55
 1,1,2-Trichloroethane
 Concen: 4.838 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

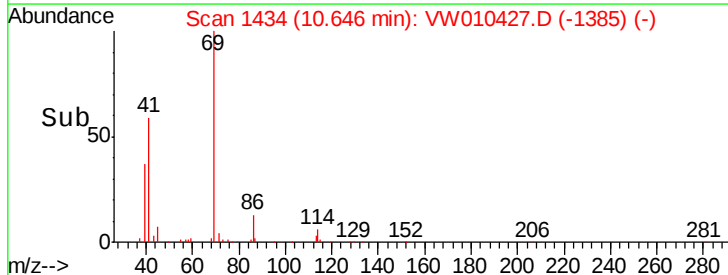
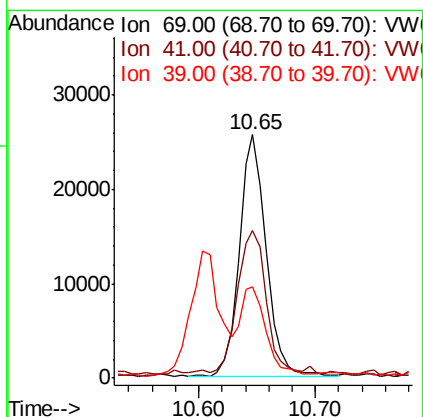
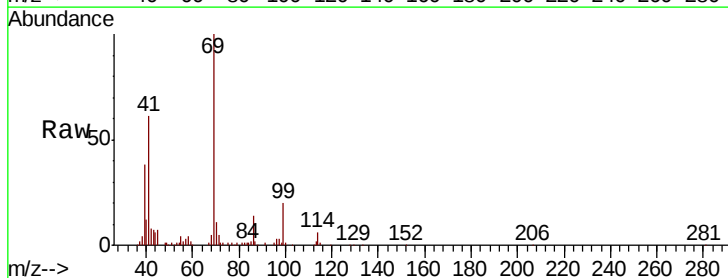
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

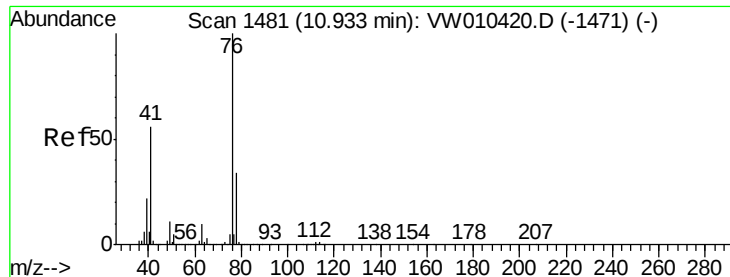
Tgt Ion:	97	Resp:	30618
Ion	Ratio	Lower	Upper
97	100		
83	77.8	65.6	98.4
85	53.7	41.6	62.4
99	63.3	48.8	73.2



#56
 Ethyl methacrylate
 Concen: 4.615 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion:	69	Resp:	40750
Ion	Ratio	Lower	Upper
69	100		
41	61.7	50.0	75.0
39	35.5	26.5	39.7





#57

1,3-Dichloropropane

Concen: 4.805 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

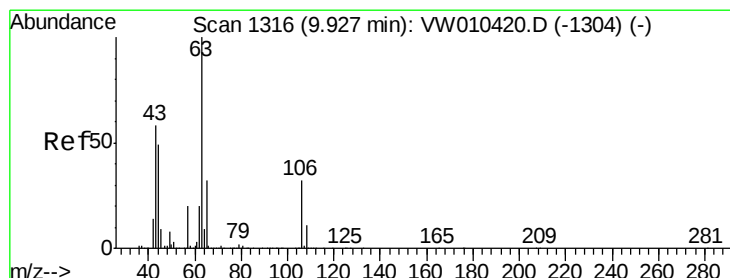
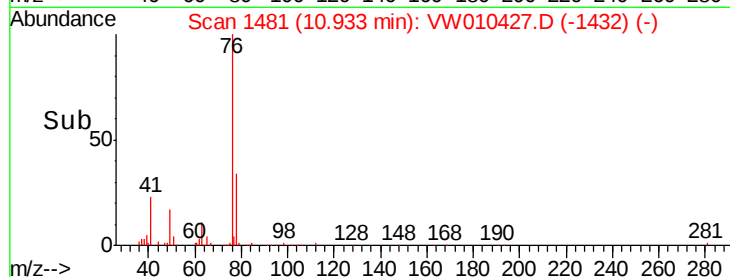
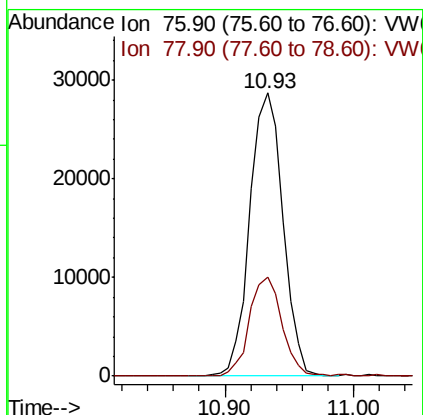
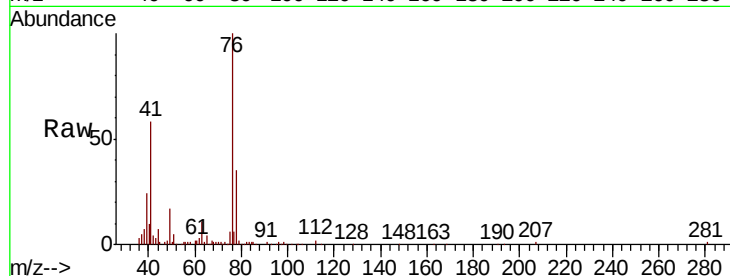
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 76 Resp: 50976

Ion Ratio Lower Upper

76 100

78 34.2 25.8 38.8



#58

2-Chloroethyl Vinyl ether

Concen: 21.706 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VW010427.D

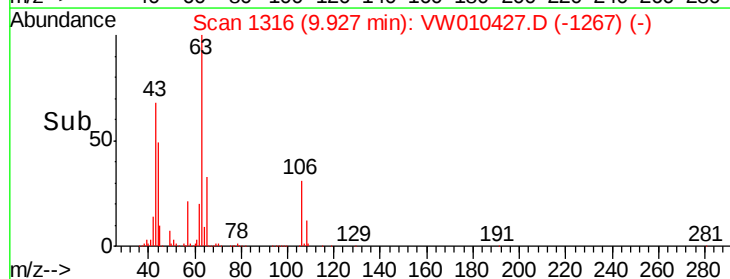
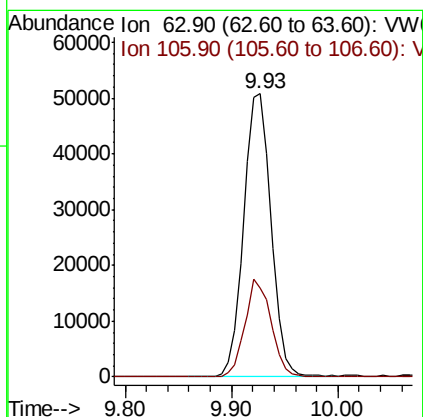
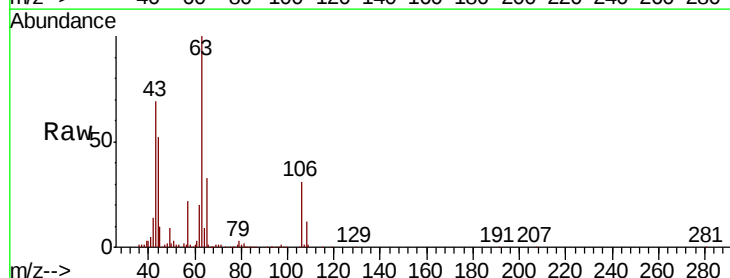
Acq: 17 May 2019 23:39

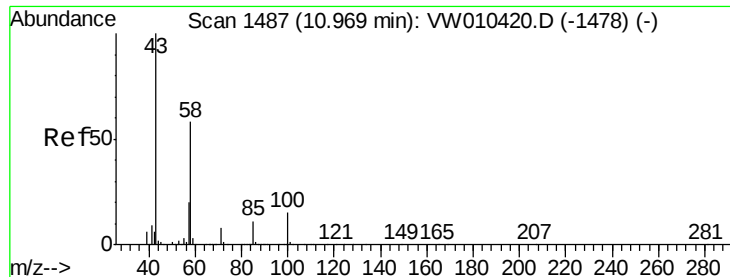
Tgt Ion: 63 Resp: 92095

Ion Ratio Lower Upper

63 100

106 32.8 25.2 37.8





#59

2-Hexanone

Concen: 23.504 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

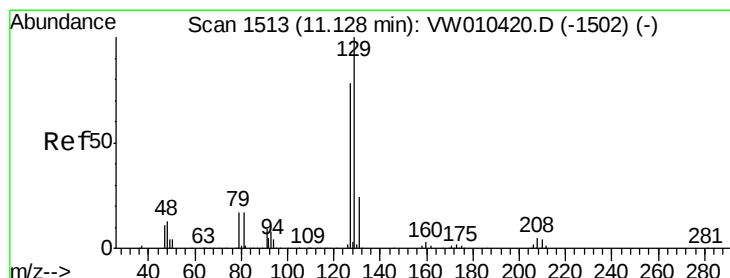
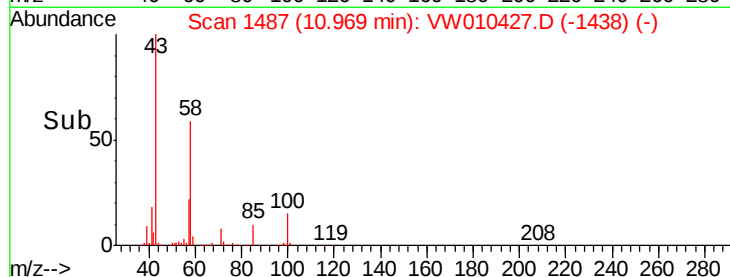
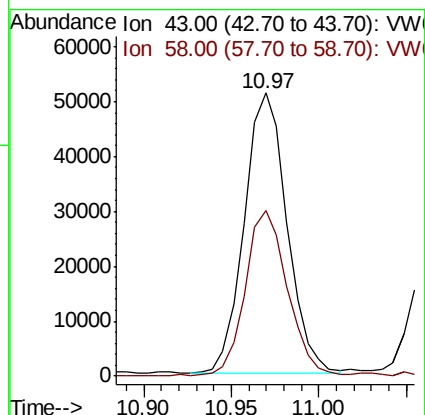
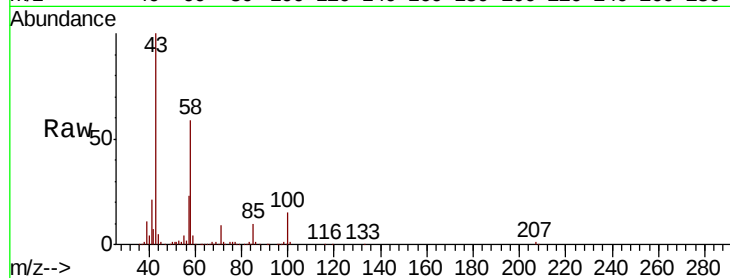
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 43 Resp: 86934

Ion Ratio Lower Upper

43 100

58 58.6 28.5 85.6



#60

Dibromochloromethane

Concen: 4.477 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW010427.D

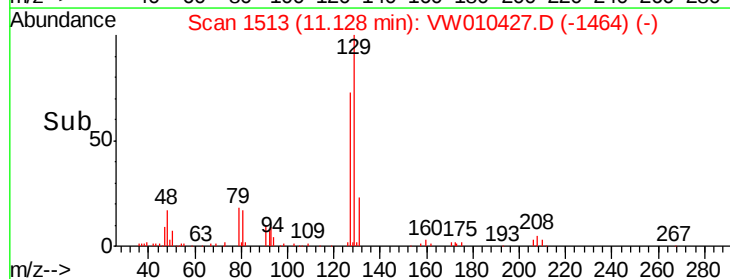
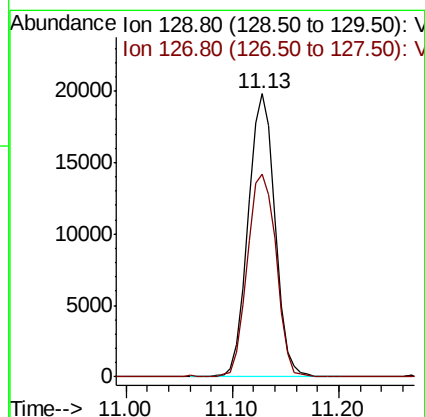
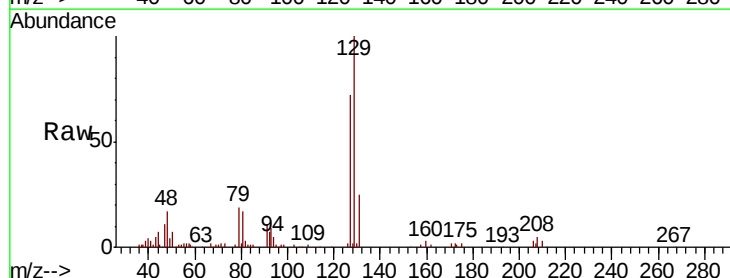
Acq: 17 May 2019 23:39

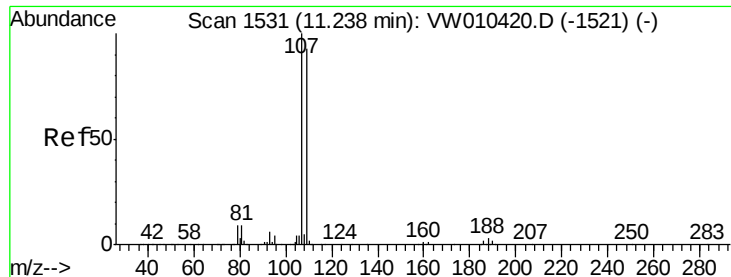
Tgt Ion: 129 Resp: 35160

Ion Ratio Lower Upper

129 100

127 76.8 39.0 116.9

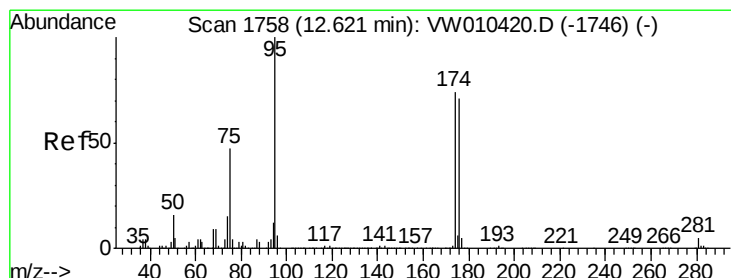
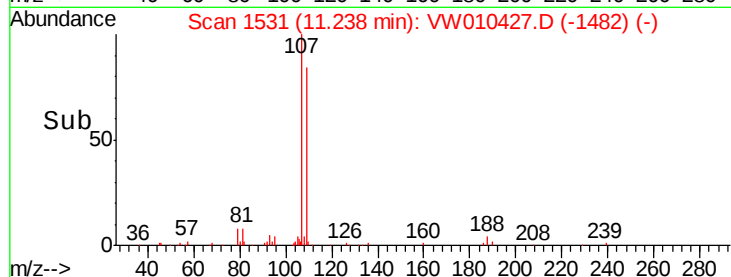
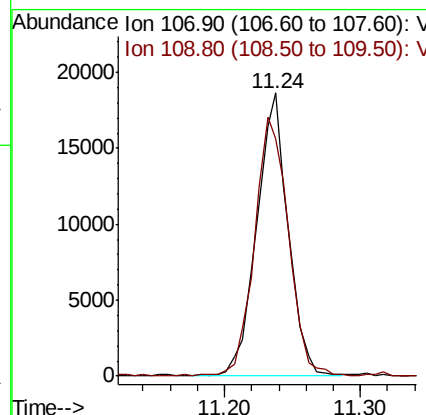
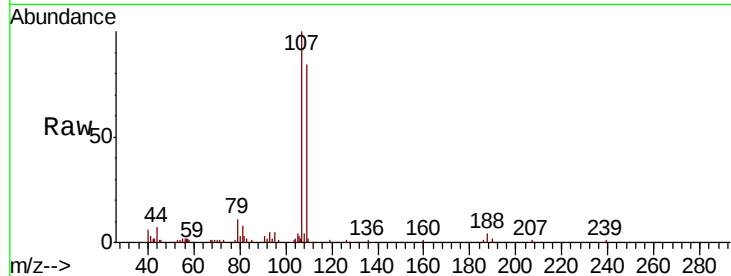




#61
 1,2-Dibromoethane
 Concen: 4.722 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

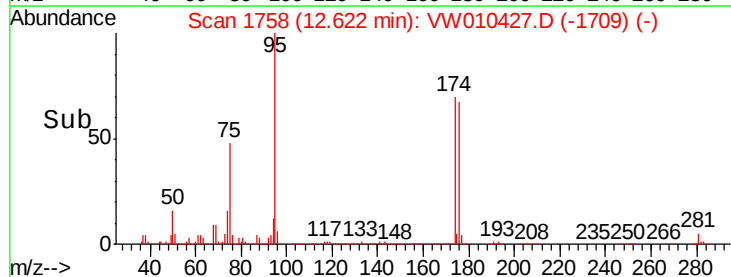
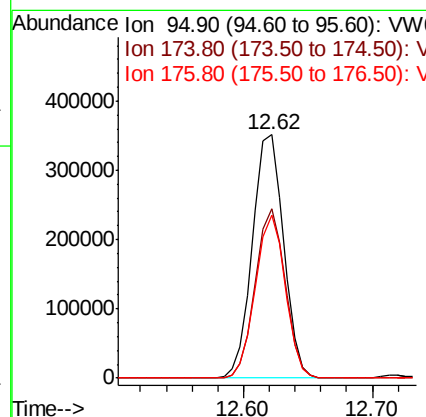
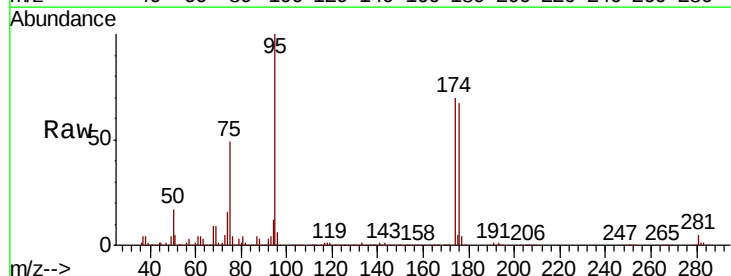
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

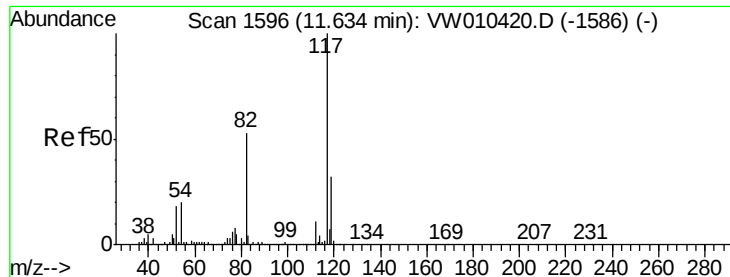
Tgt Ion: 107 Resp: 30284
 Ion Ratio Lower Upper
 107 100
 109 98.6 74.8 112.2



#62
 4-Bromofluorobenzene
 Concen: 53.834 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion: 95 Resp: 584385
 Ion Ratio Lower Upper
 95 100
 174 67.0 0.0 146.6
 176 64.5 0.0 141.4

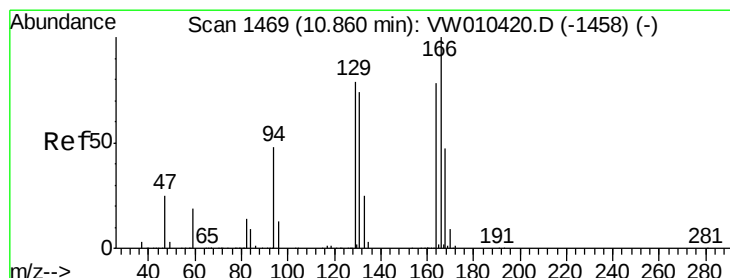
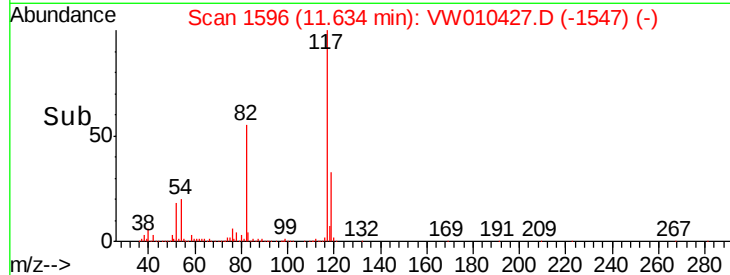
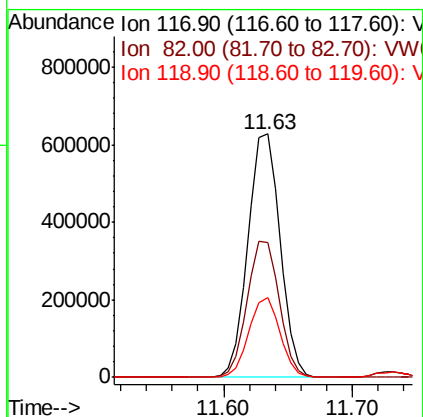
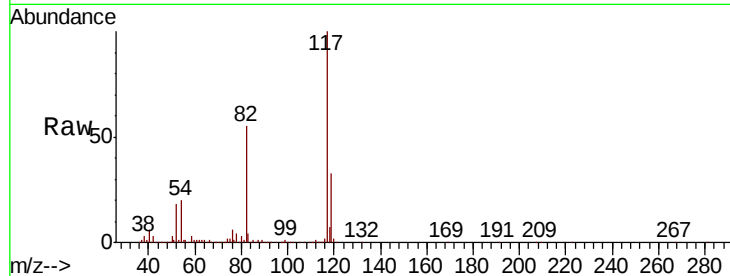




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

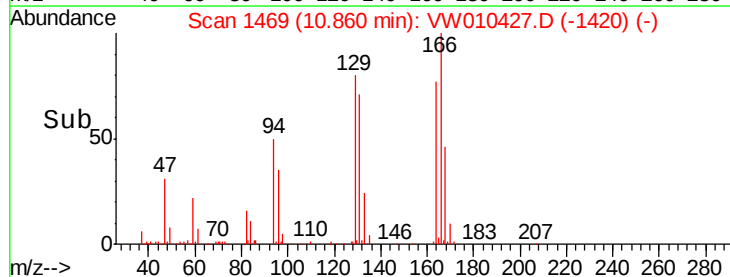
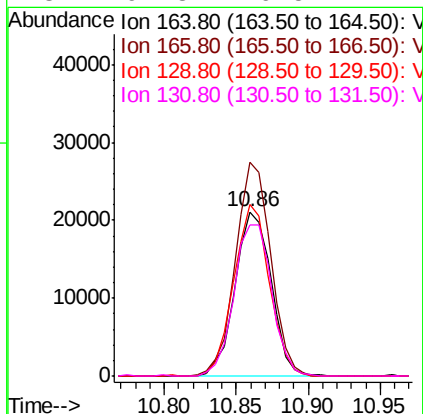
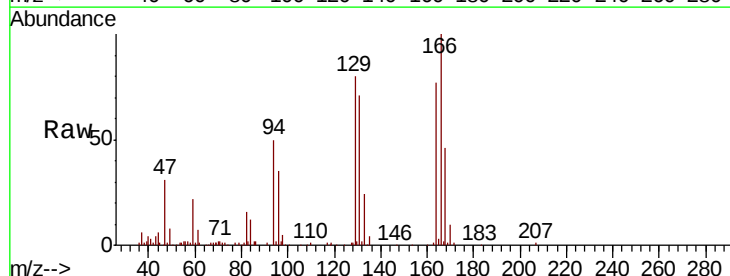
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

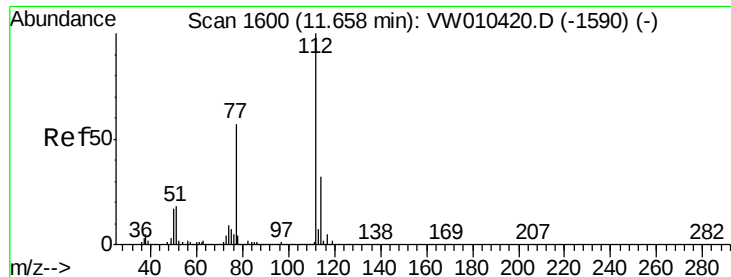
Tgt Ion:117 Resp: 1080880
Ion Ratio Lower Upper
117 100
82 55.2 42.1 63.1
119 32.6 25.6 38.4



#64
Tetrachloroethene
Concen: 5.174 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion:164 Resp: 36782
Ion Ratio Lower Upper
164 100
166 130.0 103.2 154.8
129 104.3 81.6 122.4
131 91.8 76.5 114.7





#65

Chlorobenzene

Concen: 4.615 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

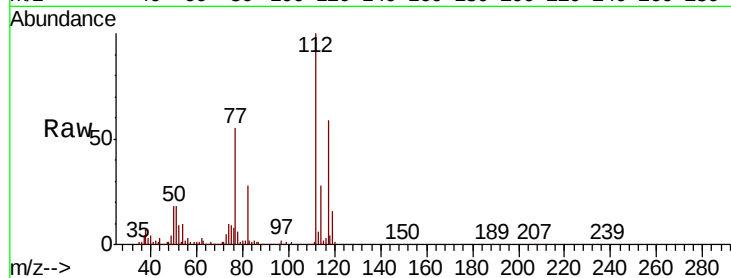
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion:112 Resp: 101287

Ion Ratio Lower Upper

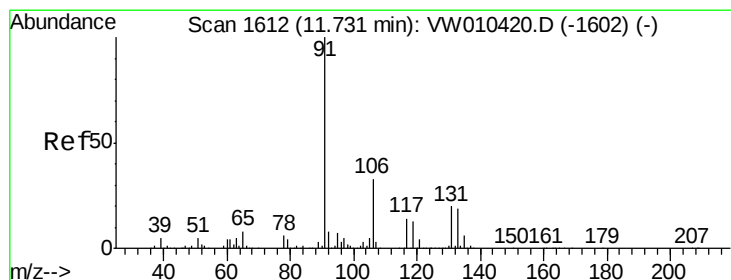
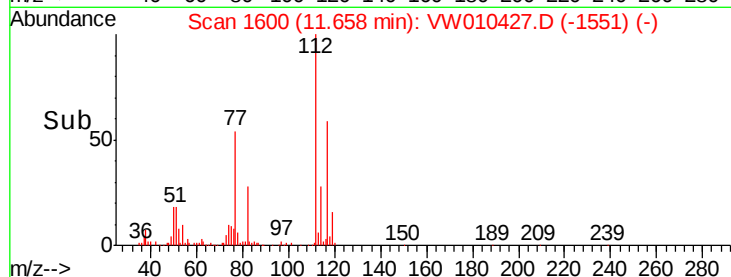
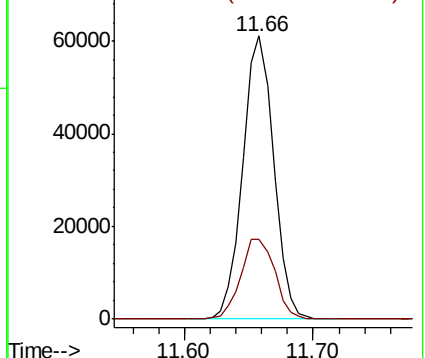
112 100

114 28.2 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 4.291 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

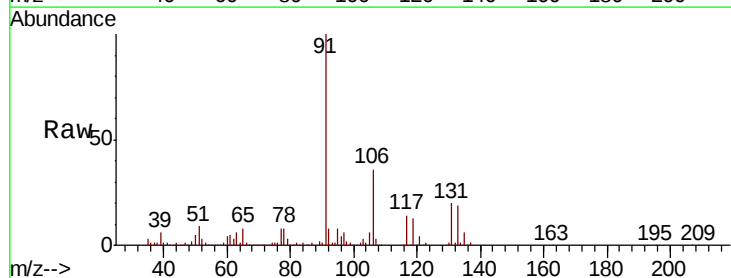
Tgt Ion:131 Resp: 34777

Ion Ratio Lower Upper

131 100

133 97.2 48.3 144.8

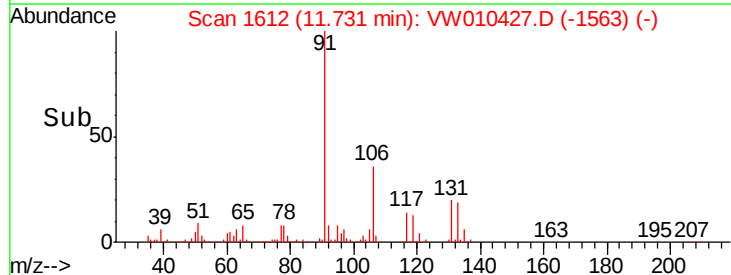
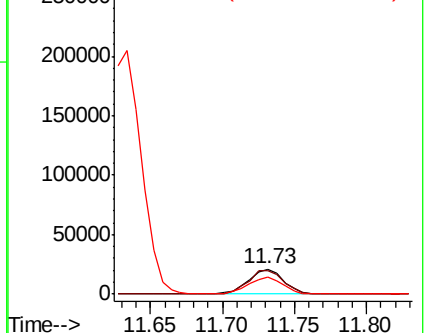
119 69.3 32.4 97.0

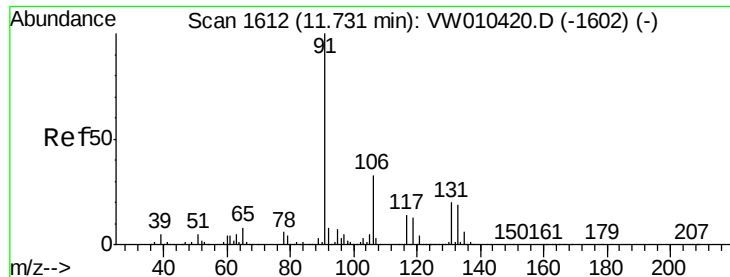


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 4.484 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

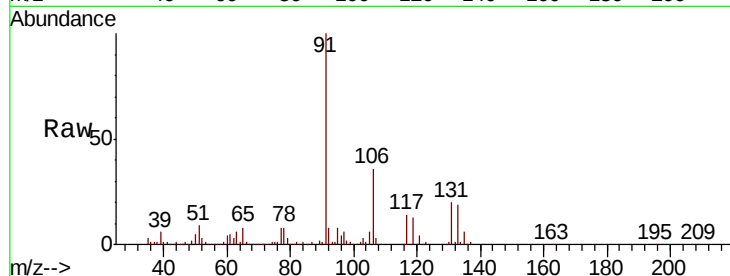
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 91 Resp: 173382

Ion Ratio Lower Upper

91 100

106 36.0 26.5 39.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

150000

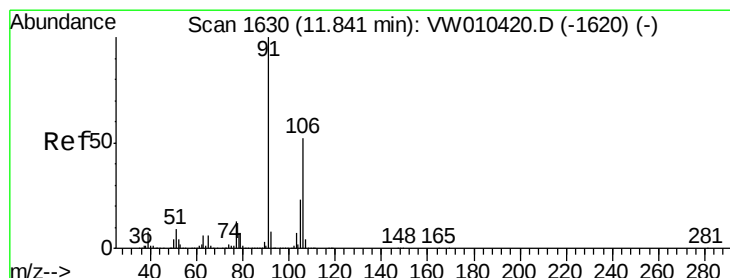
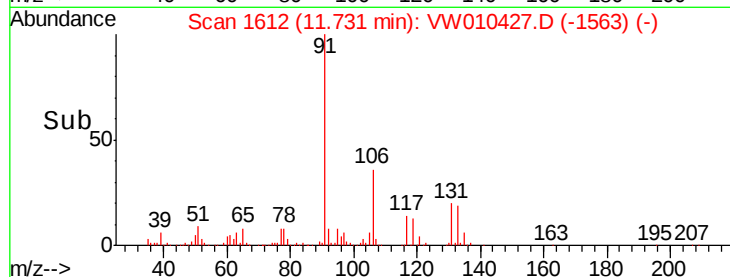
100000

50000

0

11.65 11.70 11.75 11.80

Time-->



#68

m/p-Xylenes

Concen: 8.922 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW010427.D

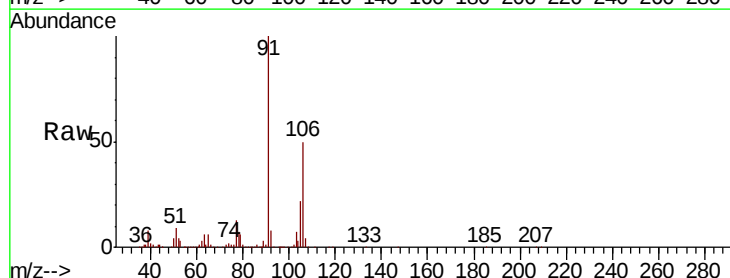
Acq: 17 May 2019 23:39

Tgt Ion: 106 Resp: 135009

Ion Ratio Lower Upper

106 100

91 199.8 156.2 234.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

150000

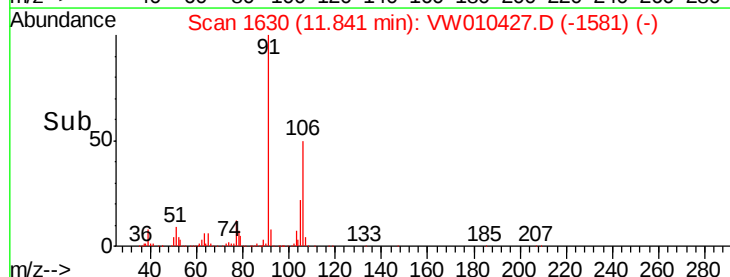
100000

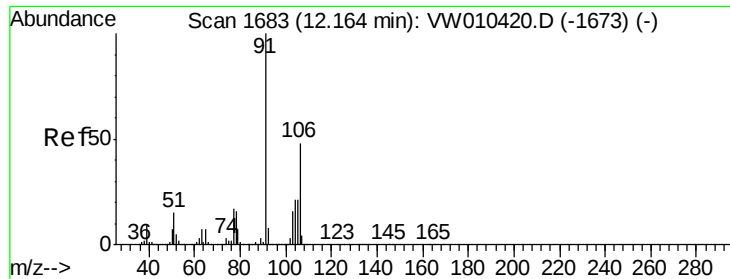
50000

0

11.80 11.84 11.90

Time-->

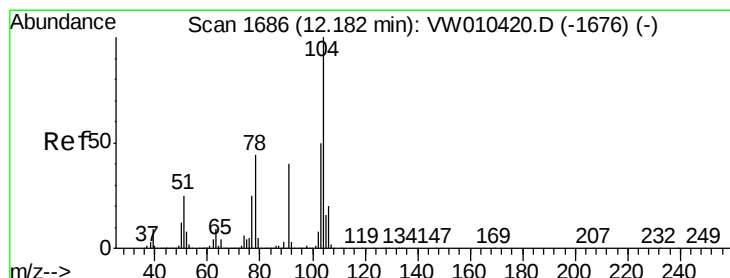
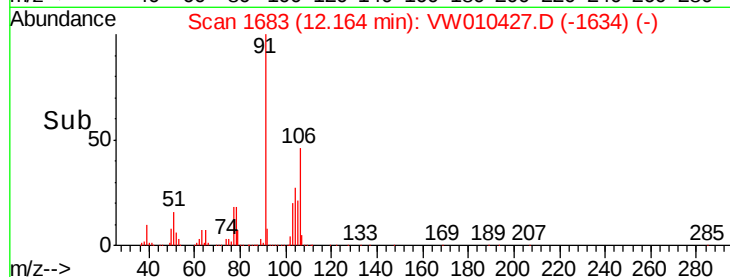
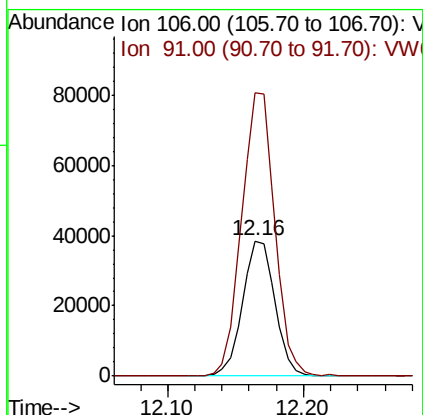
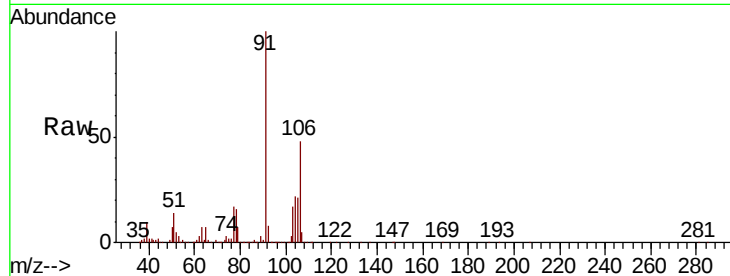




#69
o-Xylene
Concen: 4.430 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

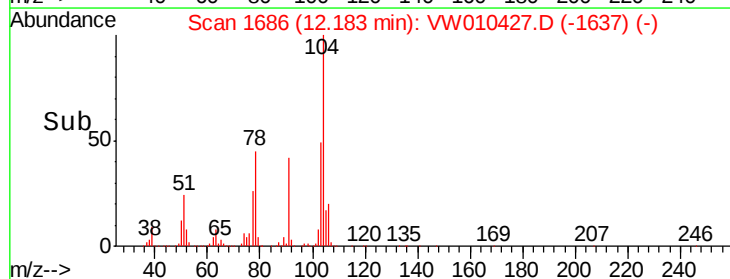
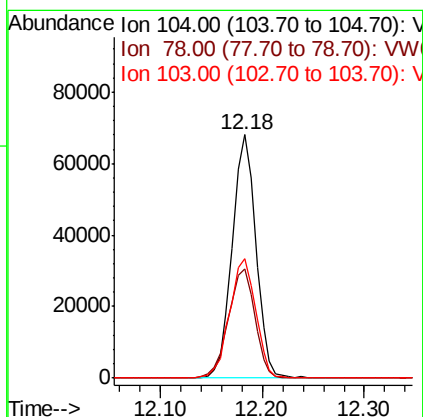
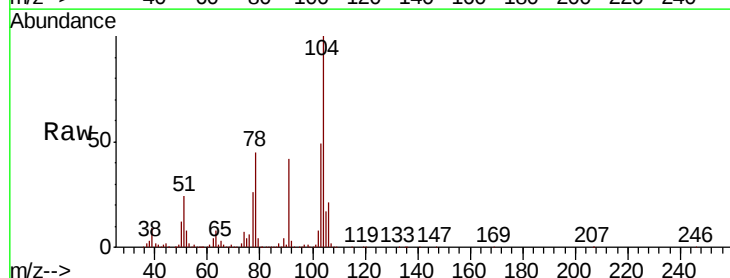
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

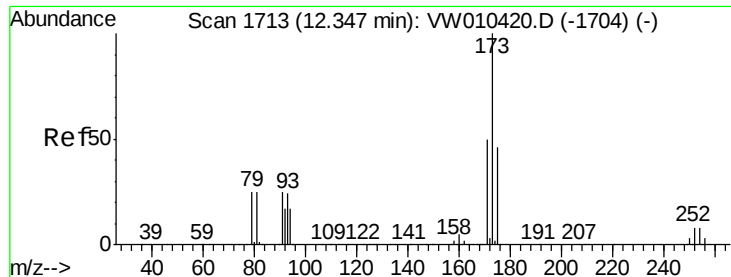
Tgt Ion:106 Resp: 63896
Ion Ratio Lower Upper
106 100
91 214.0 102.5 307.5



#70
Styrene
Concen: 4.407 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion:104 Resp: 109450
Ion Ratio Lower Upper
104 100
78 50.1 39.4 59.0
103 54.1 43.4 65.0





#71

Bromoform

Concen: 4.479 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

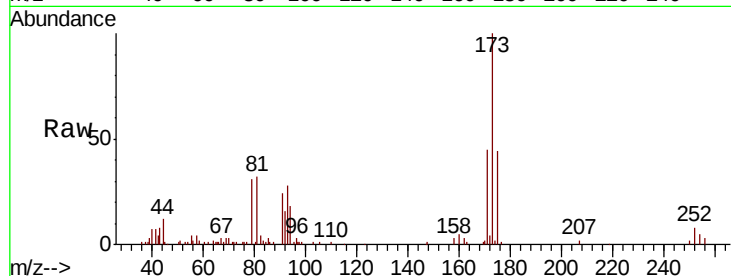
Tgt Ion:173 Resp: 20454

Ion Ratio Lower Upper

173 100

175 45.3 23.8 71.2

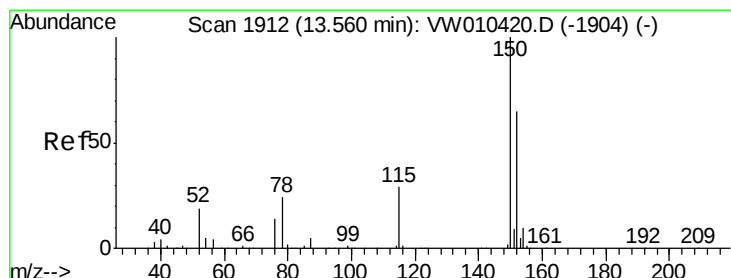
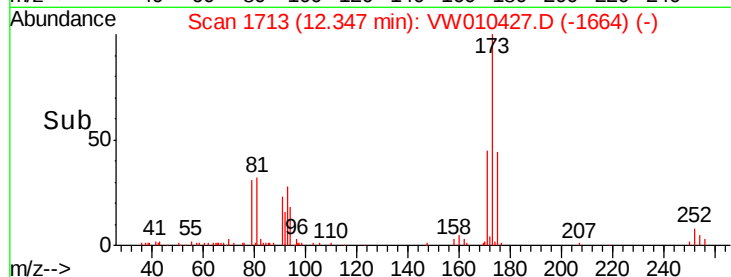
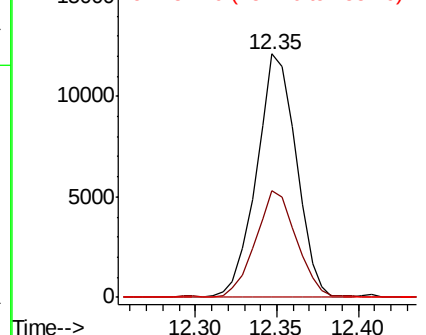
254 0.0 0.2 0.2#



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: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

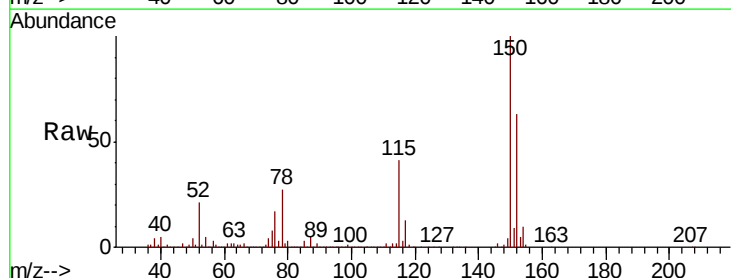
Tgt Ion:152 Resp: 489054

Ion Ratio Lower Upper

152 100

115 63.8 30.0 90.1

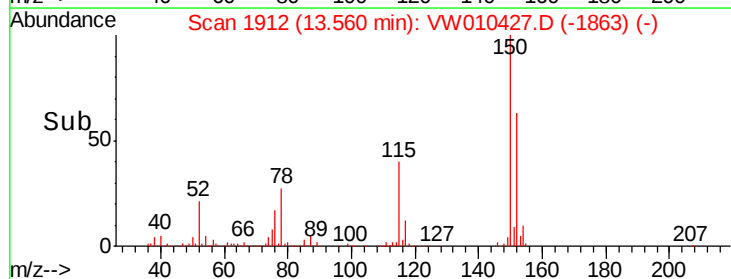
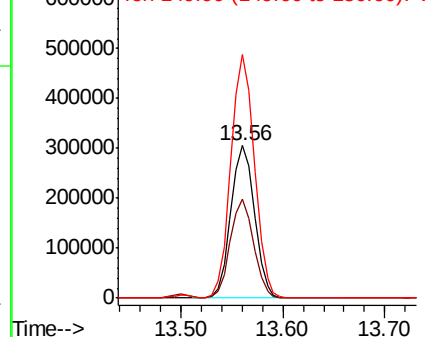
150 159.2 0.0 350.2

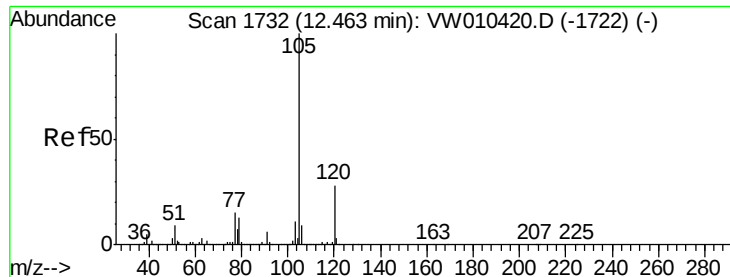


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 4.520 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

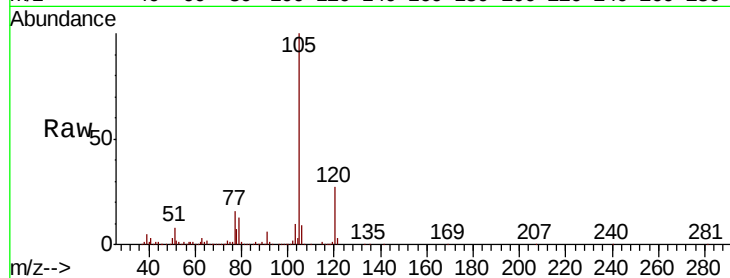
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion:105 Resp: 170934

Ion Ratio Lower Upper

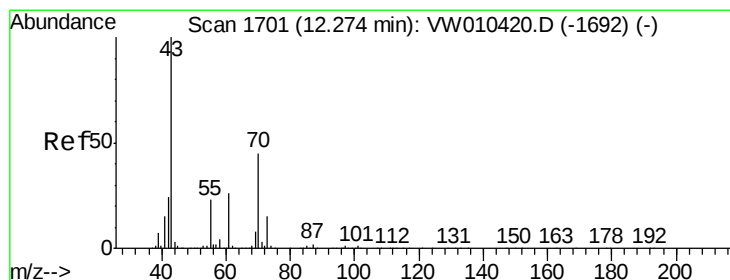
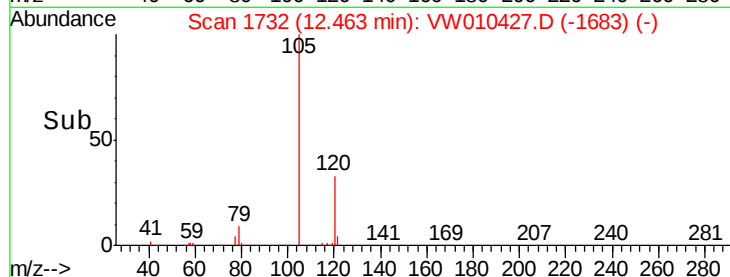
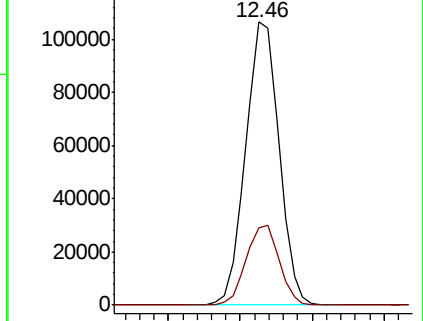
105 100

120 27.9 13.9 41.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.425 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Tgt Ion: 43 Resp: 42880

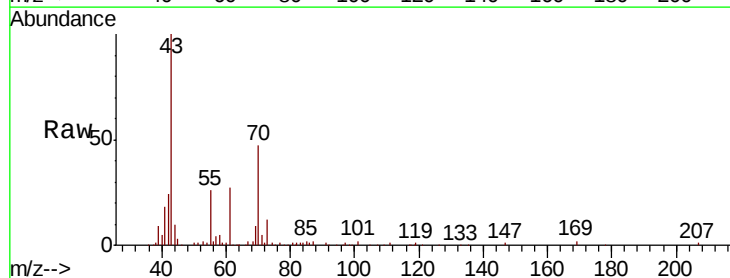
Ion Ratio Lower Upper

43 100

70 48.3 36.4 54.6

55 26.0 19.0 28.6

61 28.1 20.6 31.0

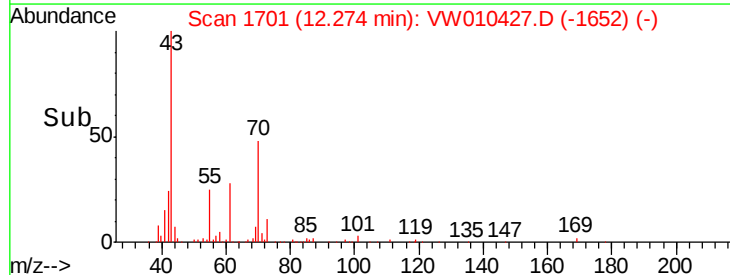
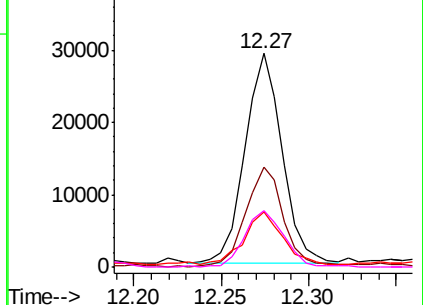


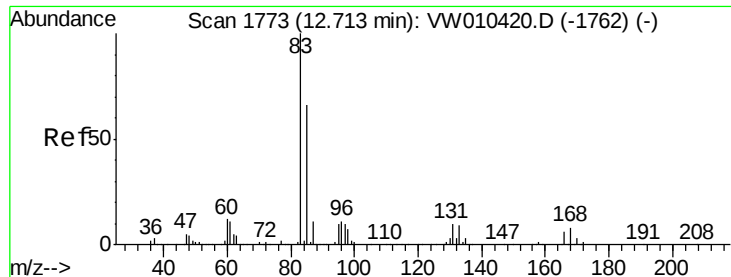
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#75

1,1,2,2-Tetrachloroethane

Concen: 4.771 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

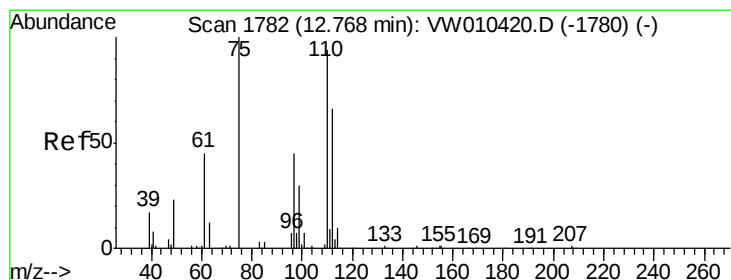
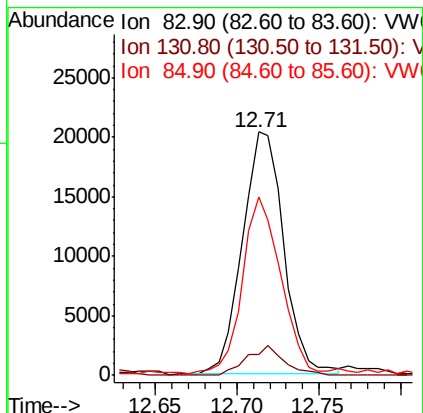
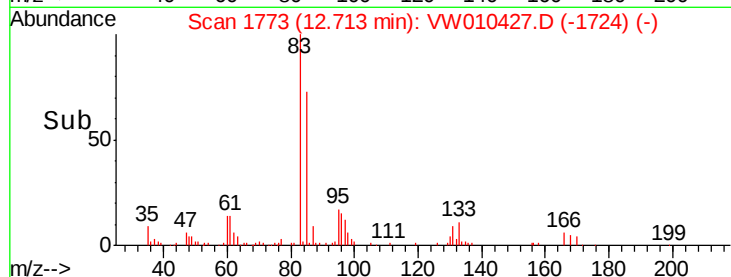
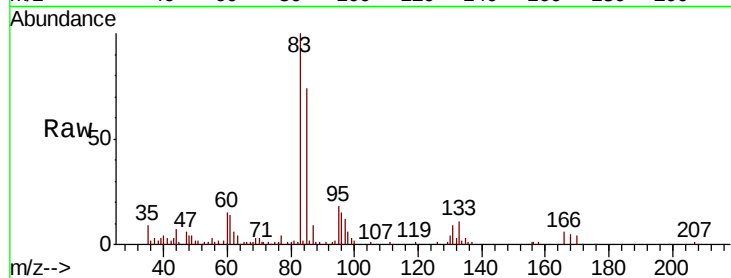
Tgt Ion: 83 Resp: 35730

Ion Ratio Lower Upper

83 100

131 11.2 5.5 16.4

85 68.1 32.3 96.9



#76

1,2,3-Trichloropropane

Concen: 9.052 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW010427.D

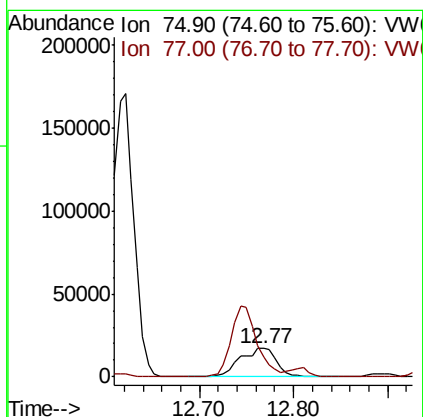
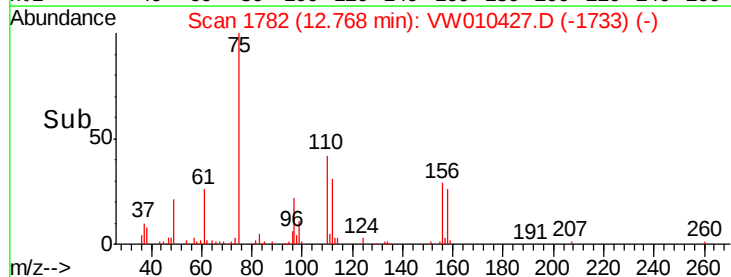
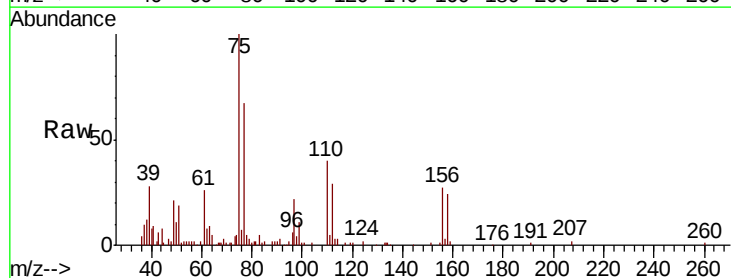
Acq: 17 May 2019 23:39

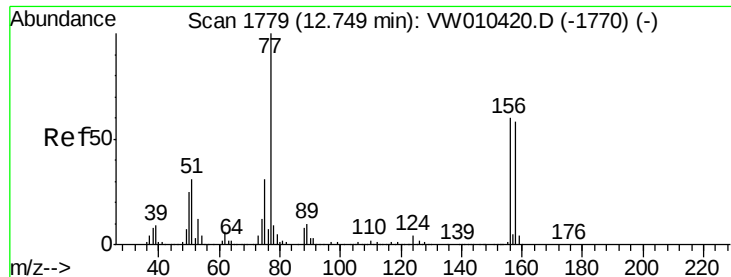
Tgt Ion: 75 Resp: 47407

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 4.525 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

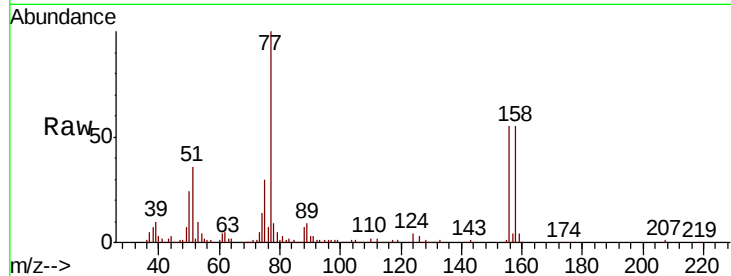
Tgt Ion:156 Resp: 38652

Ion Ratio Lower Upper

156 100

77 209.9 95.7 286.9

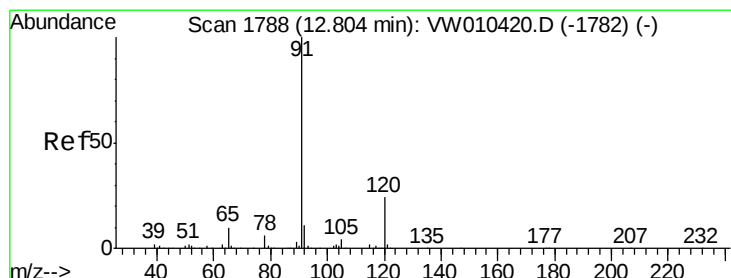
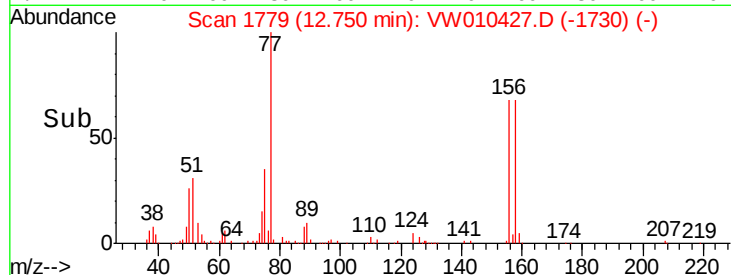
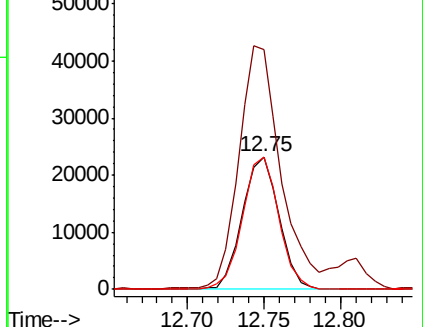
158 98.8 48.9 146.7



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.629 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW010427.D

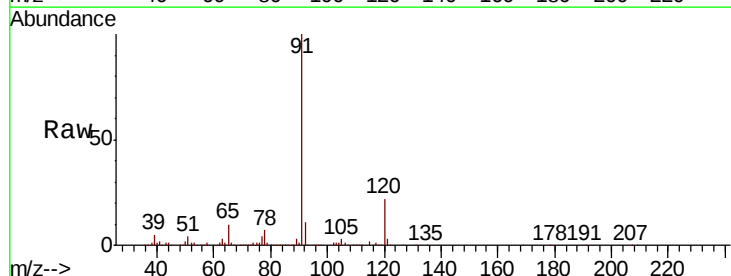
Acq: 17 May 2019 23:39

Tgt Ion: 91 Resp: 203063

Ion Ratio Lower Upper

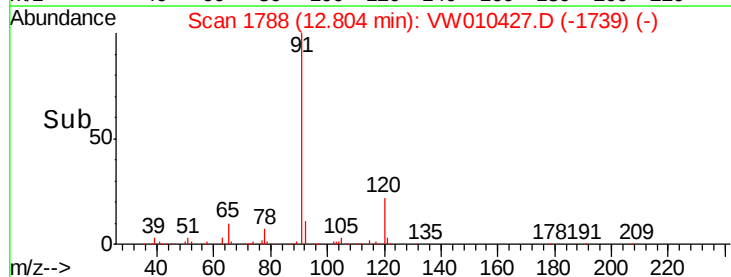
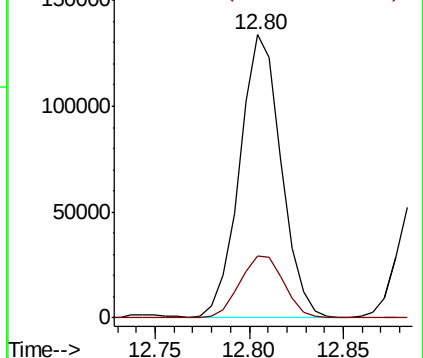
91 100

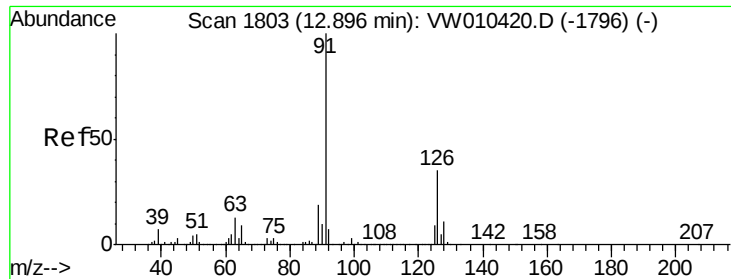
120 23.4 12.0 36.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.719 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

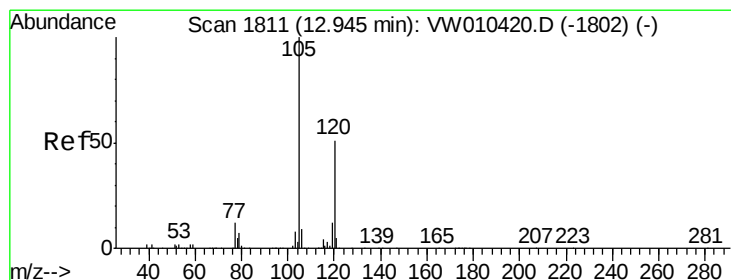
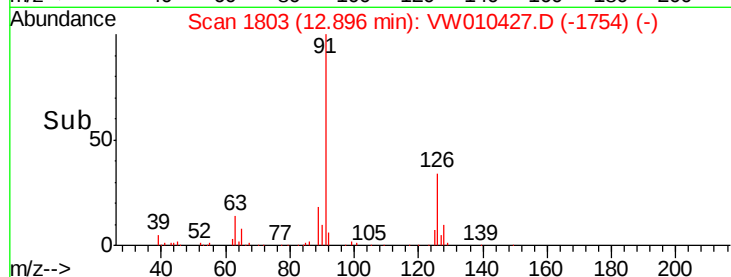
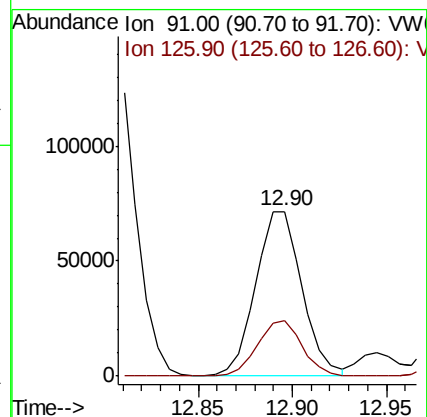
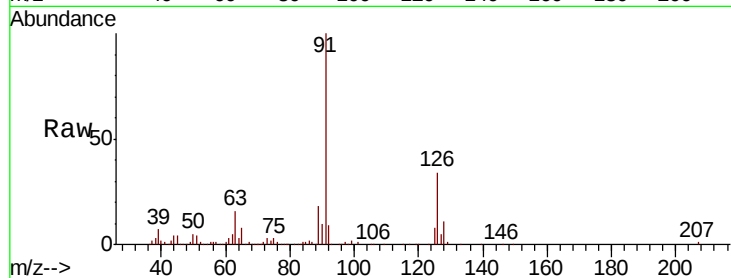
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion: 91 Resp: 120886

Ion Ratio Lower Upper

91 100

126 33.0 17.3 52.0



#80

1,3,5-Trimethylbenzene

Concen: 4.653 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW010427.D

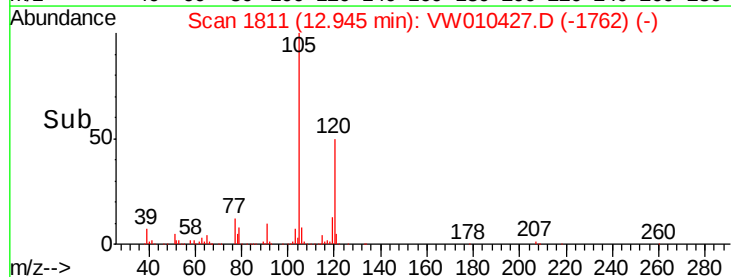
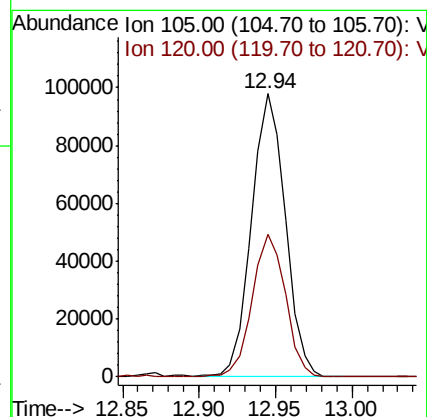
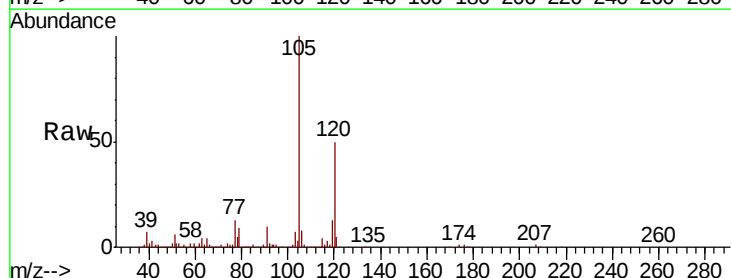
Acq: 17 May 2019 23:39

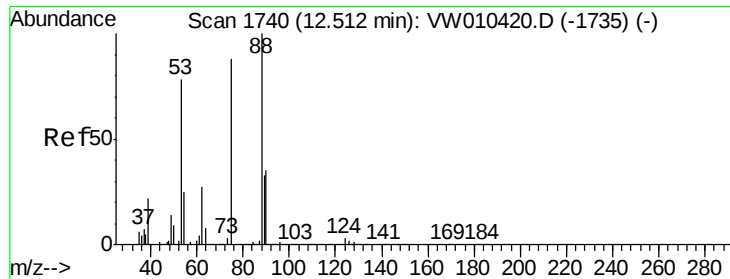
Tgt Ion: 105 Resp: 149767

Ion Ratio Lower Upper

105 100

120 49.9 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 4.138 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

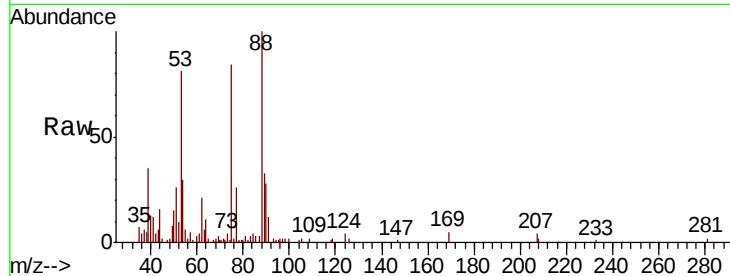
Tgt Ion: 75 Resp: 10982

Ion Ratio Lower Upper

75 100

53 104.5 70.7 106.1

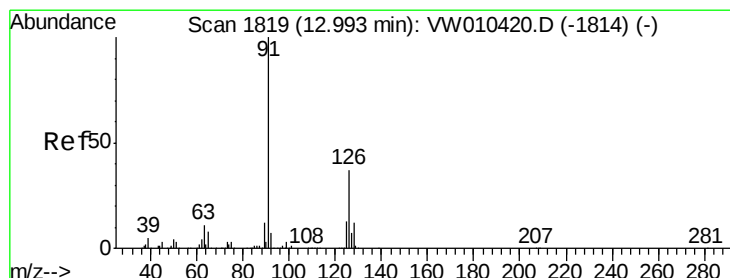
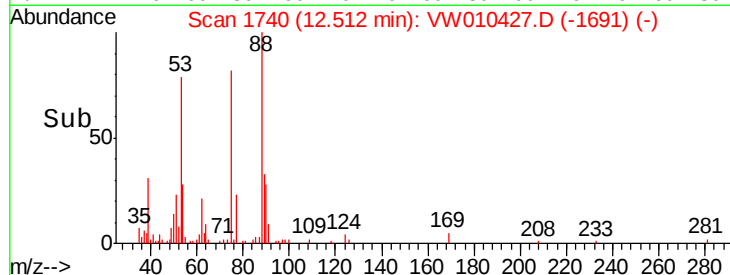
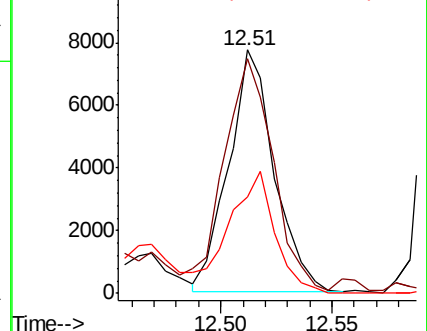
89 50.3 38.6 58.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#82

4-Chlorotoluene

Concen: 4.813 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW010427.D

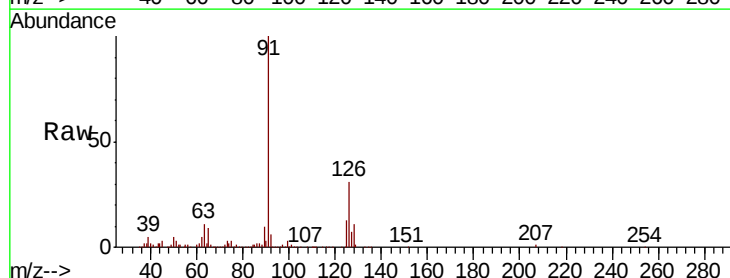
Acq: 17 May 2019 23:39

Tgt Ion: 91 Resp: 128764

Ion Ratio Lower Upper

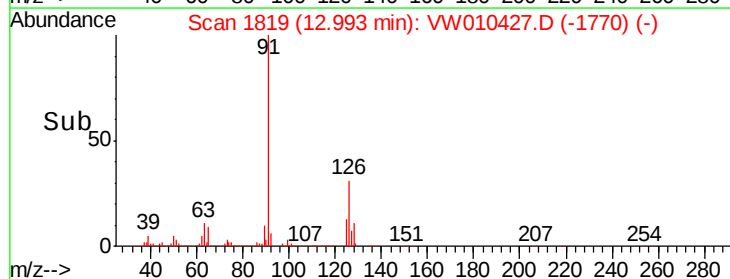
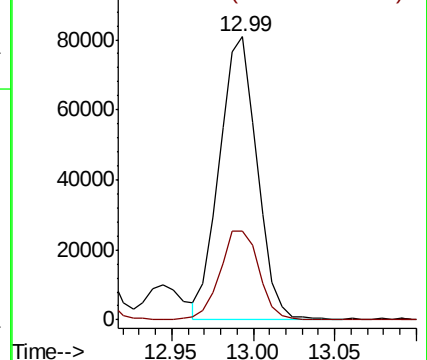
91 100

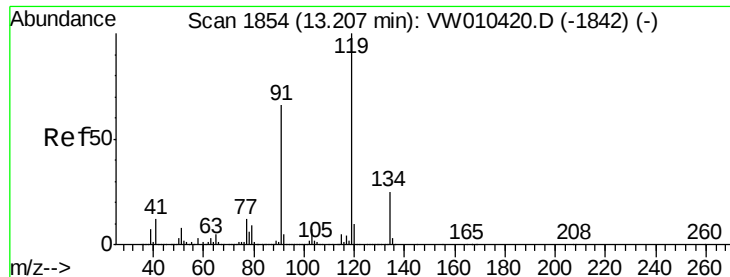
126 32.9 17.4 52.2



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

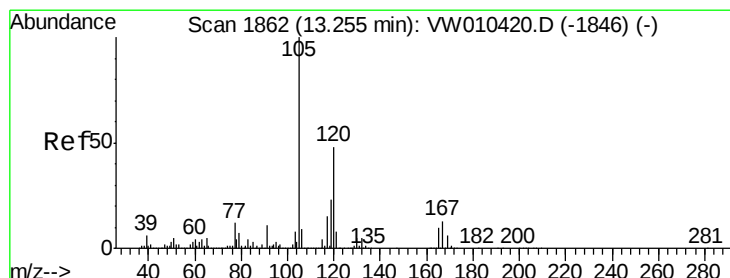
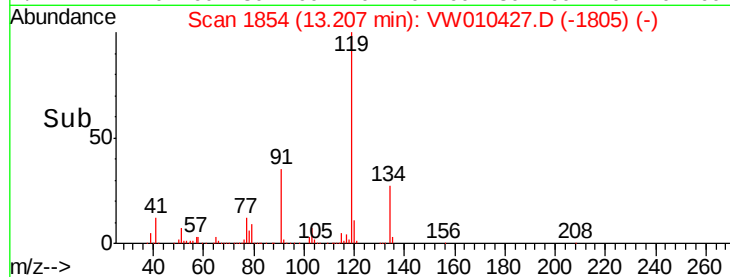
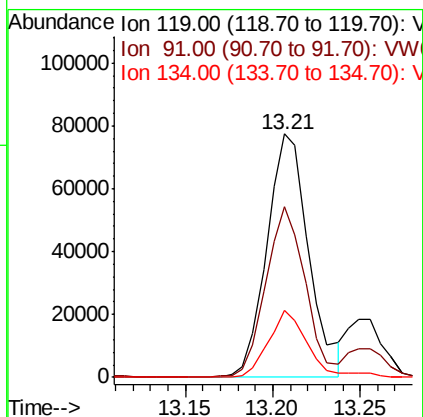
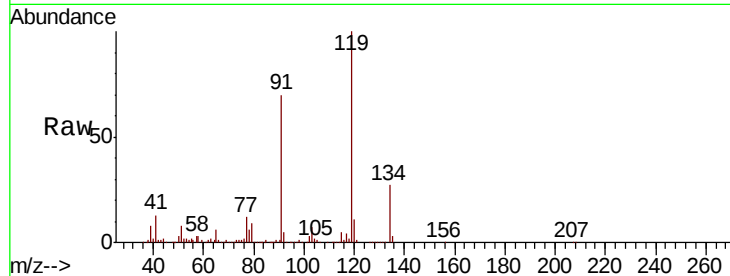




#83
 tert-Butylbenzene
 Concen: 4.760 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

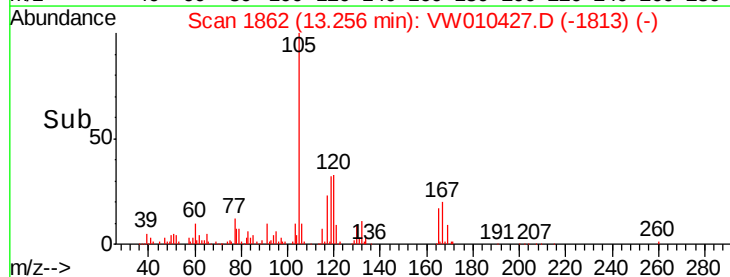
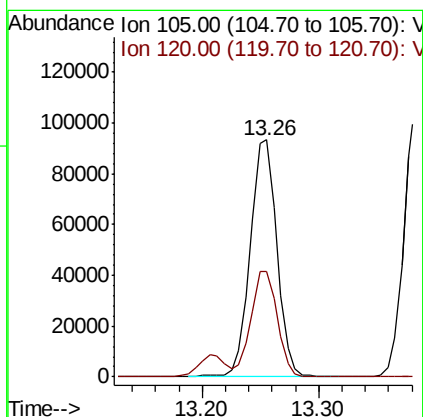
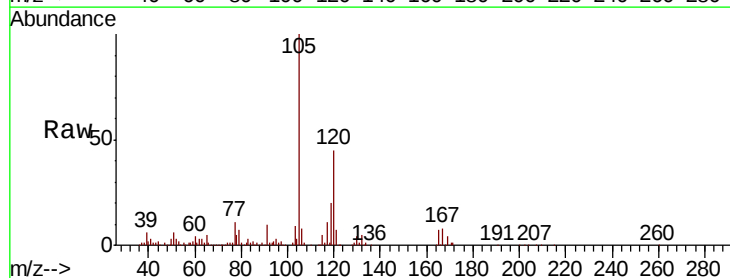
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

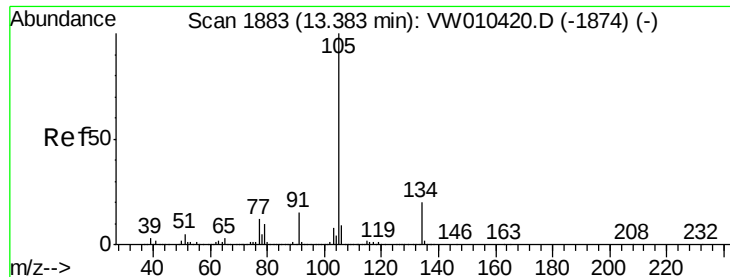
Tgt Ion:119 Resp: 129573
 Ion Ratio Lower Upper
 119 100
 91 66.2 33.5 100.5
 134 25.9 13.8 41.4



#84
 1,2,4-Trimethylbenzene
 Concen: 4.726 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion:105 Resp: 149653
 Ion Ratio Lower Upper
 105 100
 120 44.3 23.4 70.0

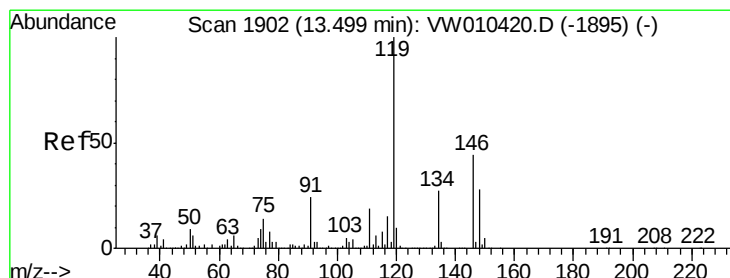
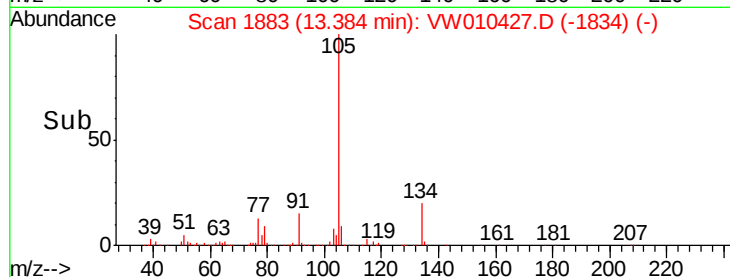
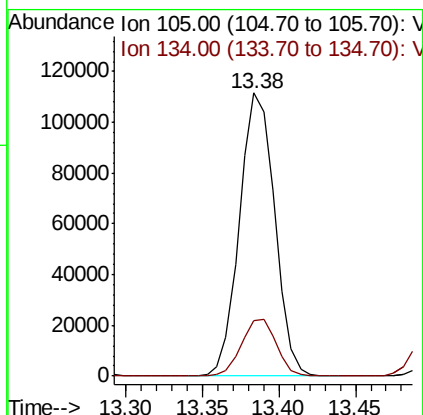
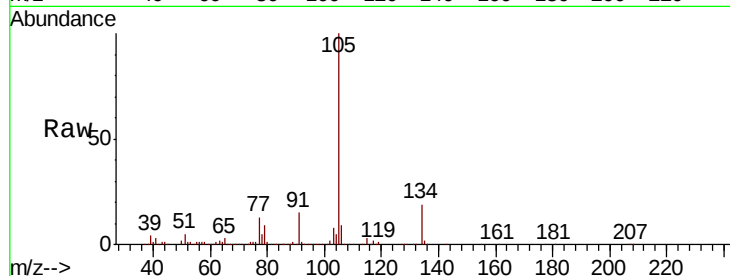




#85
 sec-Butylbenzene
 Concen: 4.662 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

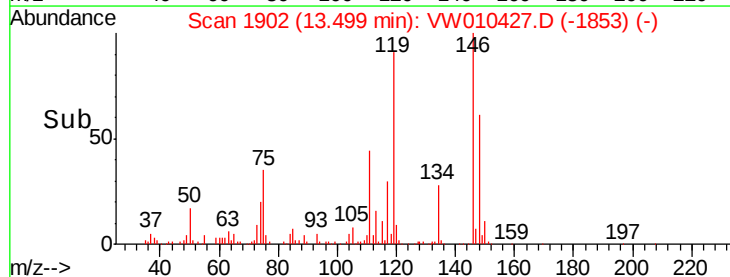
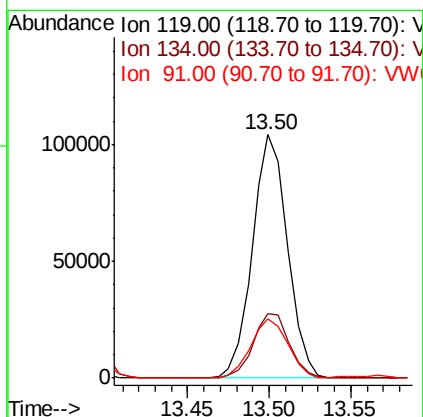
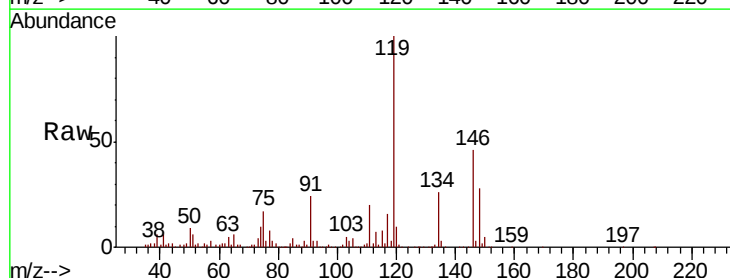
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

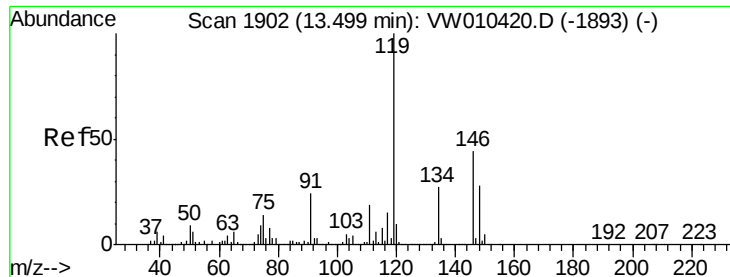
Tgt Ion:105 Resp: 178707
 Ion Ratio Lower Upper
 105 100
 134 19.9 10.4 31.4



#86
 p-Isopropyltoluene
 Concen: 4.469 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion:119 Resp: 154744
 Ion Ratio Lower Upper
 119 100
 134 27.5 13.7 41.0
 91 25.8 12.2 36.4

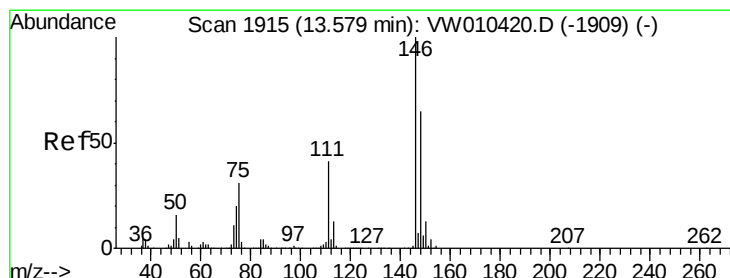
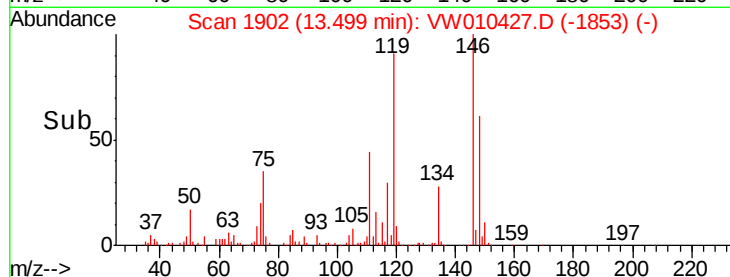
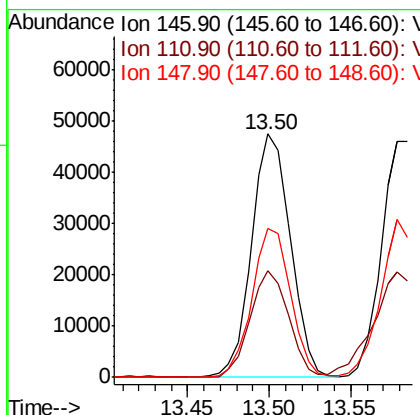
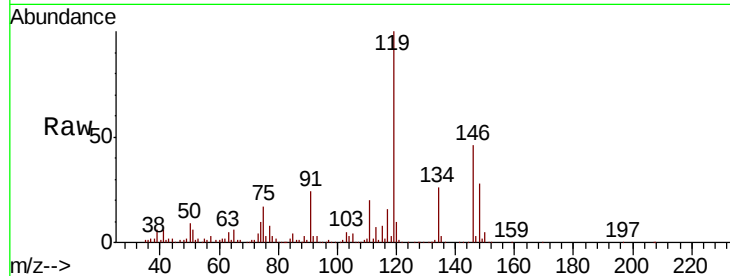




#87
 1,3-Dichlorobenzene
 Concen: 4.787 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

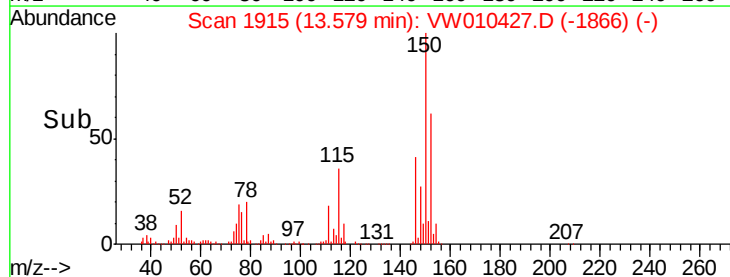
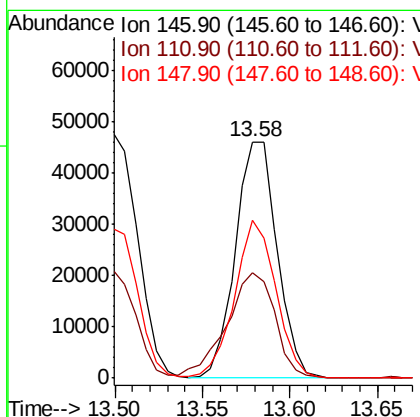
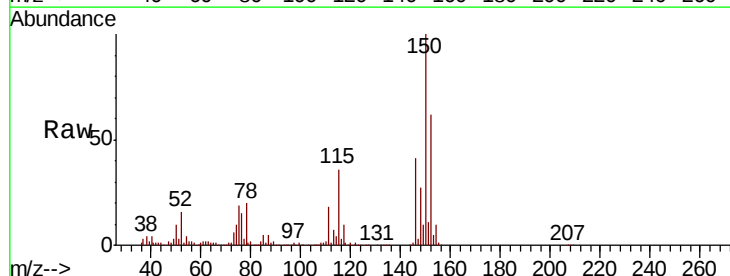
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

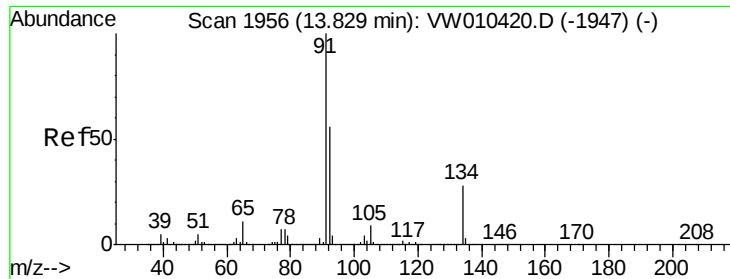
Tgt Ion:146 Resp: 78753
 Ion Ratio Lower Upper
 146 100
 111 43.5 20.8 62.4
 148 60.8 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 4.676 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion:146 Resp: 76578
 Ion Ratio Lower Upper
 146 100
 111 52.0 20.4 61.3
 148 65.9 32.3 96.9





#89

n-Butylbenzene

Concen: 4.468 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW010427.D

Acq: 17 May 2019 23:39

Instrument:

MSVOA_W

ClientSampleId:

LOD-MDL-SOIL-01-QT2-2019

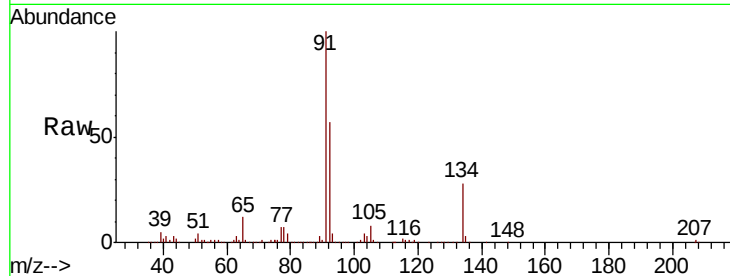
Tgt Ion: 91 Resp: 147629

Ion Ratio Lower Upper

91 100

92 56.1 27.7 83.0

134 26.8 13.8 41.3

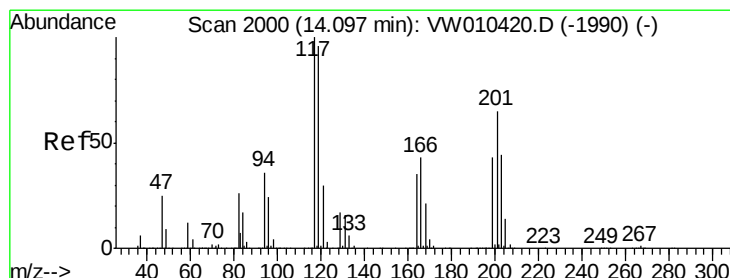
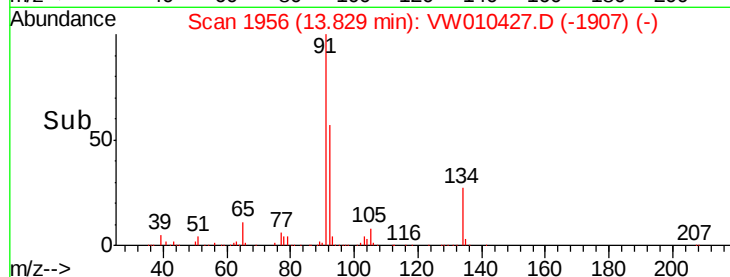
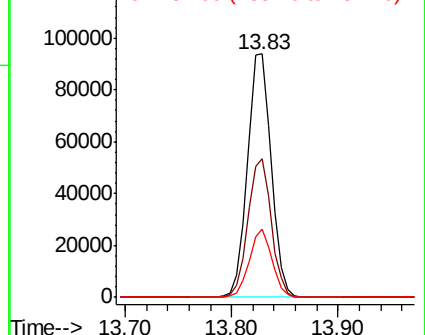


Abundance

Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 4.447 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.01 min

Lab File: VW010427.D

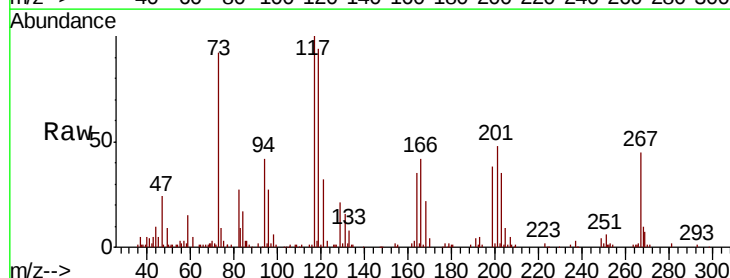
Acq: 17 May 2019 23:39

Tgt Ion: 117 Resp: 30979

Ion Ratio Lower Upper

117 100

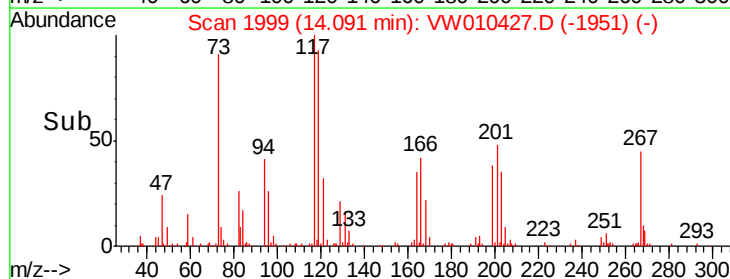
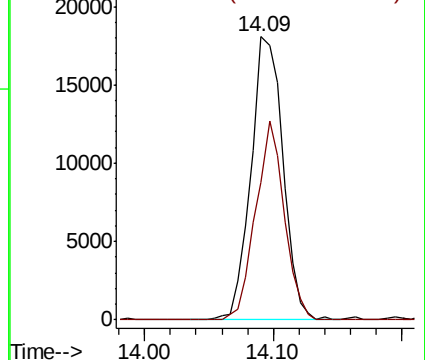
201 62.6 33.8 101.4

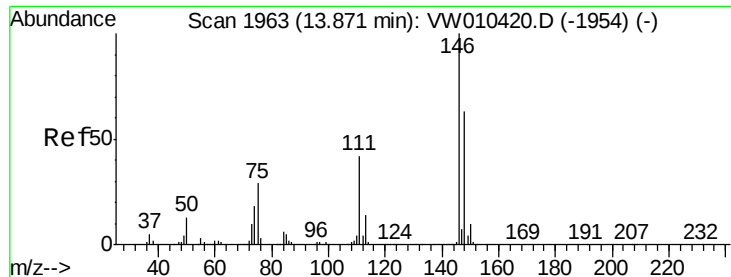


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

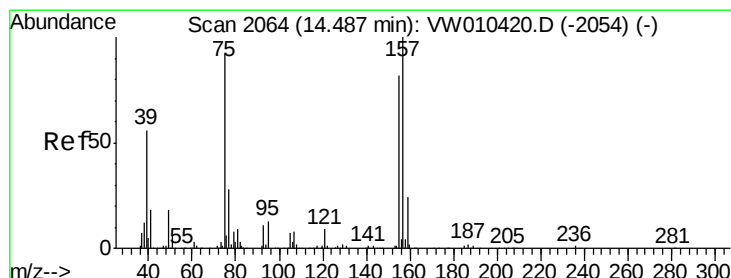
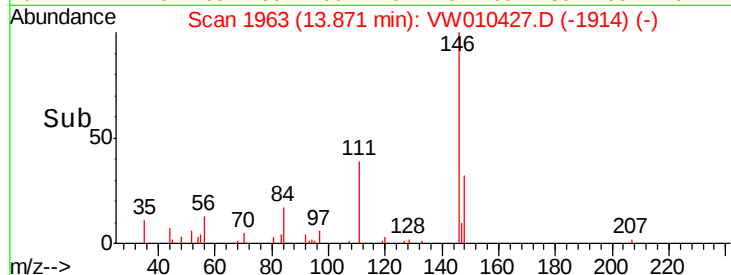
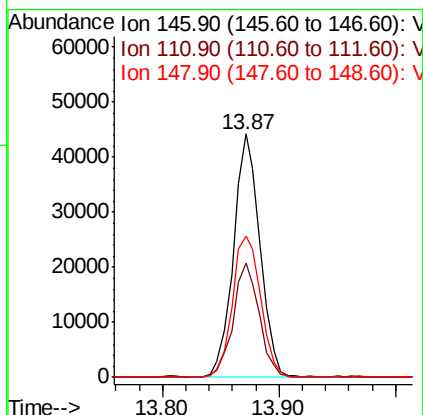
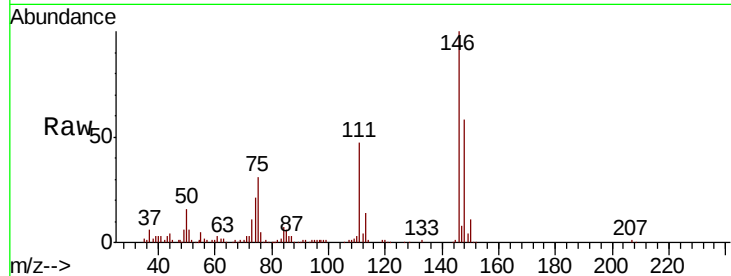




#91
 1,2-Dichlorobenzene
 Concen: 4.671 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

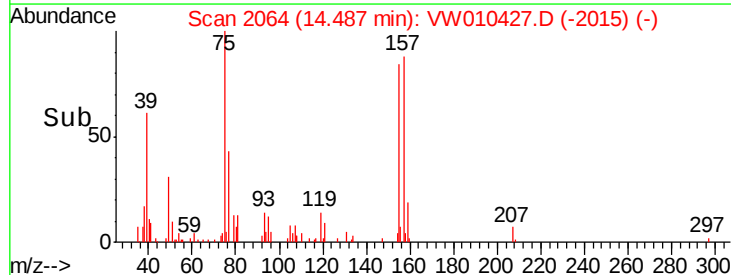
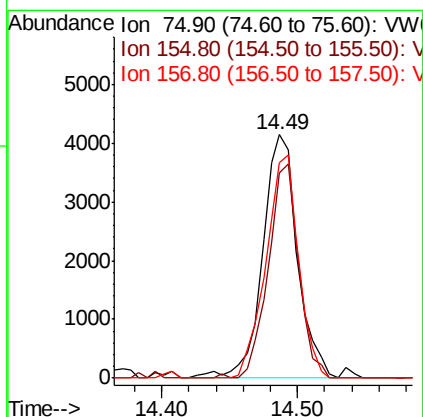
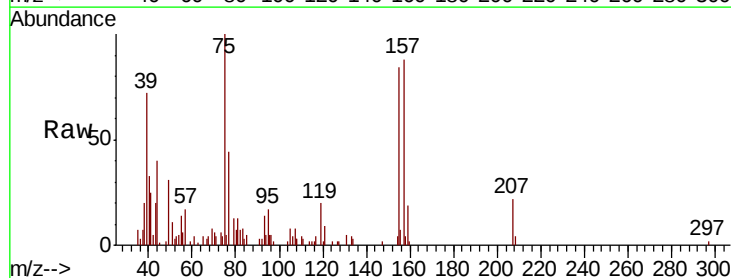
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

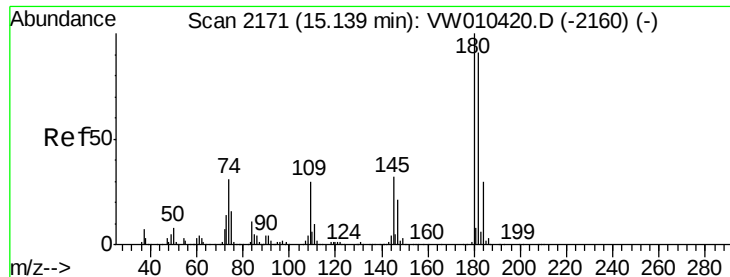
Tgt Ion:146 Resp: 69879
 Ion Ratio Lower Upper
 146 100
 111 46.3 21.3 63.7
 148 61.9 31.6 95.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.343 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion: 75 Resp: 7447
 Ion Ratio Lower Upper
 75 100
 155 76.4 43.5 130.7
 157 86.0 54.8 164.4

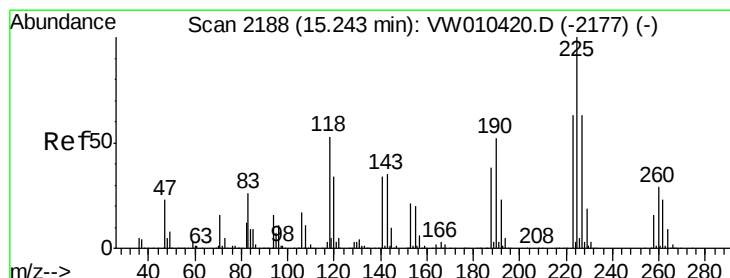
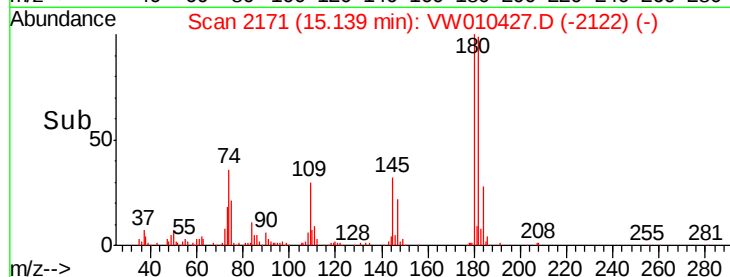
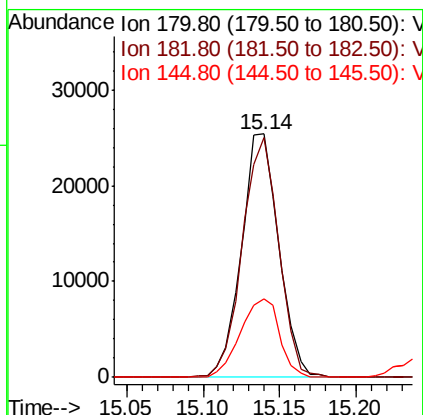
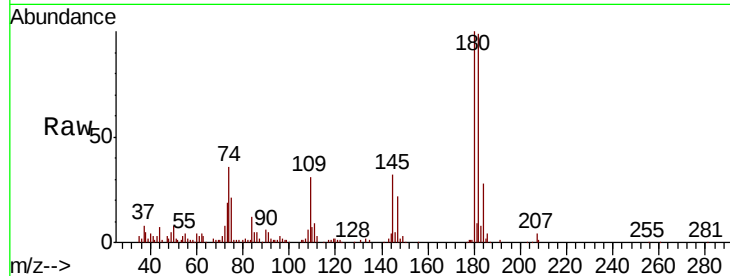




#93
 1,2,4-Trichlorobenzene
 Concen: 4.415 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

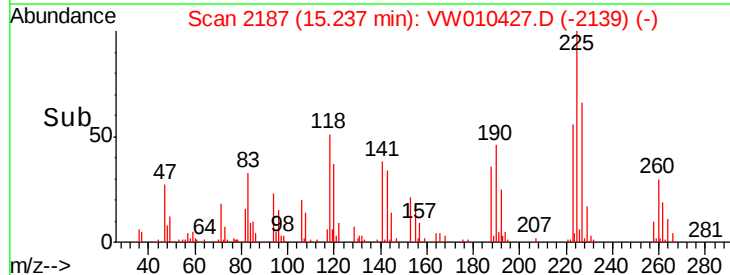
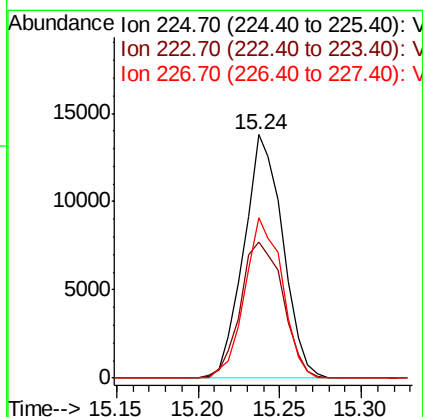
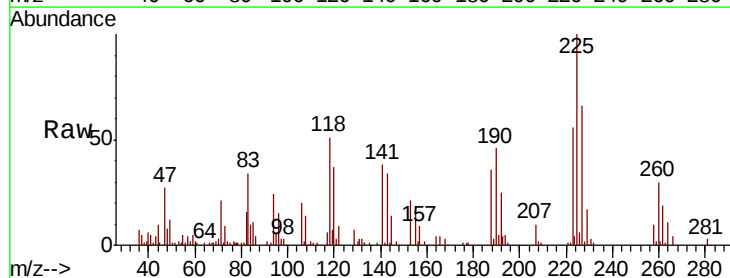
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

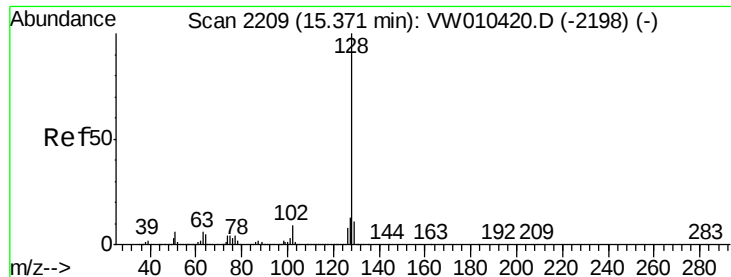
Tgt Ion:180 Resp: 43049
 Ion Ratio Lower Upper
 180 100
 182 96.1 47.0 141.2
 145 34.2 16.6 49.7



#94
 Hexachlorobutadiene
 Concen: 4.408 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW010427.D
 Acq: 17 May 2019 23:39

Tgt Ion:225 Resp: 22950
 Ion Ratio Lower Upper
 225 100
 223 60.9 32.0 96.2
 227 63.2 31.4 94.0

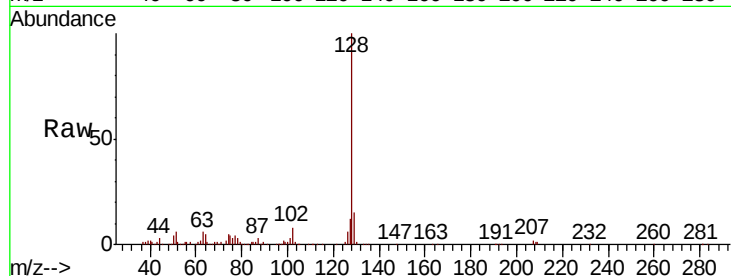




#95
Naphthalene
Concen: 4.623 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tgt Ion:	128	Resp:	101911
Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.5	15.7
129	11.6	8.6	13.0

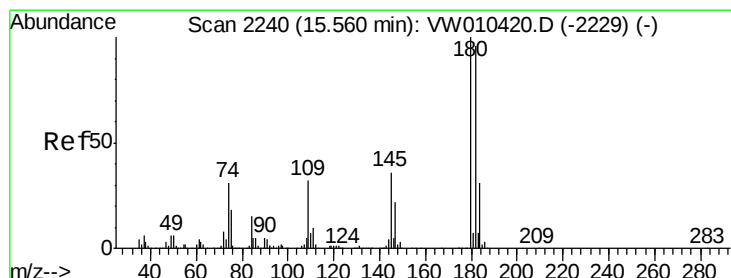
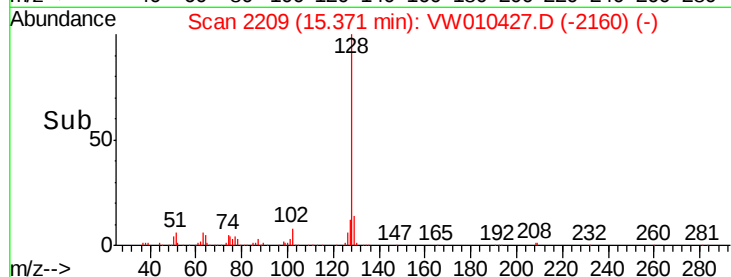
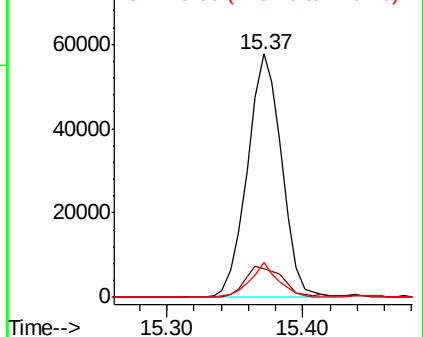


Abundance

Ion 128.00 (127.70 to 128.70): V

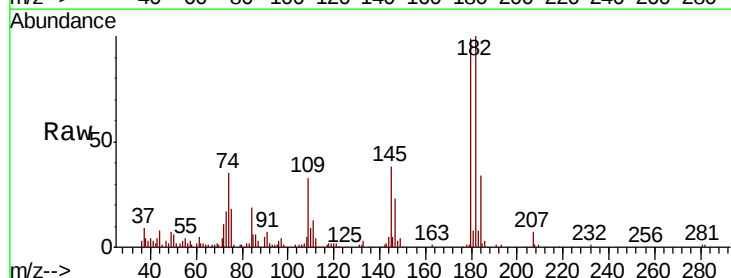
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 4.483 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW010427.D
Acq: 17 May 2019 23:39

Tgt Ion:	180	Resp:	38540
Ion	Ratio	Lower	Upper
180	100		
182	99.2	47.6	142.9
145	38.2	17.8	53.5



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

