

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW030920\
 Data File : VW015104.D
 Acq On : 09 Mar 2020 18:15
 Operator : SY/VA
 Sample : L1161-02 5PPBLOQ
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Quant Time: Mar 10 18:29:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030920S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 10 18:26:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	388949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	743642	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	654357	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	290375	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	316438	55.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.66%	
35) Dibromofluoromethane	7.88	113	231942	52.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.20%	
50) Toluene-d8	10.32	98	964785	51.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.50%	
62) 4-Bromofluorobenzene	12.62	95	315783	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.01	85	11166	4.73	ug/l	98
3) Chloromethane	2.21	50	29067	5.74	ug/l	95
4) Vinyl Chloride	2.36	62	34460	5.20	ug/l	95
5) Bromomethane	2.78	94	18929	5.00	ug/l	99
6) Chloroethane	2.92	64	20089	5.23	ug/l	97
7) Trichlorofluoromethane	3.26	101	16845	5.08	ug/l	95
8) Diethyl Ether	3.68	74	13422	5.31	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	4.06	101	26220	5.19	ug/l	98
10) Methyl Iodide	4.27	142	28711	5.11	ug/l #	94
11) Tert butyl alcohol	5.16	59	14381	43.75	ug/l	98
12) 1,1-Dichloroethene	4.03	96	24513	4.96	ug/l	98
13) Acrolein	3.89	56	13410	27.90	ug/l	92
14) Allyl chloride	4.67	41	48507	4.90	ug/l	97
15) Acrylonitrile	5.37	53	34864	26.92	ug/l	98
16) Acetone	4.12	43	38642	29.63	ug/l	97
17) Carbon Disulfide	4.38	76	88556	5.05	ug/l	99
18) Methyl Acetate	4.67	43	17574	5.68	ug/l	95
19) Methyl tert-butyl Ether	5.42	73	33878	5.36	ug/l #	88
20) Methylene Chloride	4.91	84	49829	8.25	ug/l	92
21) trans-1,2-Dichloroethene	5.42	96	26737	5.10	ug/l	96
22) Diisopropyl ether	6.31	45	92390	4.86	ug/l	93
23) Vinyl Acetate	6.26	43	259255	23.11	ug/l	99
24) 1,1-Dichloroethane	6.21	63	59422	5.36	ug/l	98
25) 2-Butanone	7.17	43	49040	27.43	ug/l	99
26) 2,2-Dichloropropane	7.17	77	37602	5.93	ug/l	97
27) cis-1,2-Dichloroethene	7.17	96	27486	5.03	ug/l	89
28) Bromochloromethane	7.51	49	28734	5.41	ug/l	97
29) Tetrahydrofuran	7.53	42	29005	25.93	ug/l	98
30) Chloroform	7.68	83	52466	5.34	ug/l	95
31) Cyclohexane	7.95	56	65143	5.72	ug/l #	77
32) 1,1,1-Trichloroethane	7.87	97	41265	5.37	ug/l	96
36) 1,1-Dichloropropene	8.08	75	43938	5.09	ug/l	99
37) Ethyl Acetate	7.25	43	23637	5.50	ug/l	99
38) Carbon Tetrachloride	8.06	117	34200	4.87	ug/l	99

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	46254	4.69	ug/l	97
40) Benzene	8.32	78	124588	5.20	ug/l	97
41) Methacrylonitrile	7.48	41	9952	4.38	ug/l #	87
42) 1,2-Dichloroethane	8.40	62	39696	5.44	ug/l	98
43) Isopropyl Acetate	8.42	43	41462	5.38	ug/l	99
44) Trichloroethene	9.09	130	24964	4.89	ug/l	99
45) 1,2-Dichloropropane	9.37	63	33758	5.23	ug/l	99
46) Dibromomethane	9.46	93	14528	5.18	ug/l	97
47) Bromodichloromethane	9.64	83	37844	5.05	ug/l	96
48) Methyl methacrylate	9.43	41	16784	4.72	ug/l	96
49) 1,4-Dioxane	9.45	88	4078	94.91	ug/l #	80
51) 4-Methyl-2-Pentanone	10.21	43	103280	24.27	ug/l	99
52) Toluene	10.38	92	69280	5.03	ug/l	98
53) t-1,3-Dichloropropene	10.60	75	35098	4.76	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	42231	4.70	ug/l	98
55) 1,1,2-Trichloroethane	10.78	97	20531	5.34	ug/l	97
56) Ethyl methacrylate	10.64	69	21834	4.40	ug/l	96
57) 1,3-Dichloropropane	10.93	76	36838	5.03	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.92	63	66047	22.69	ug/l	100
59) 2-Hexanone	10.96	43	61212	23.03	ug/l	96
60) Dibromochloromethane	11.13	129	18963	4.77	ug/l	97
61) 1,2-Dibromoethane	11.23	107	17508	5.14	ug/l	100
64) Tetrachloroethene	10.86	164	18783	4.97	ug/l	92
65) Chlorobenzene	11.65	112	67034	5.10	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	21650	4.95	ug/l	98
67) Ethyl Benzene	11.73	91	120888	4.73	ug/l	95
68) m/p-Xylenes	11.84	106	81419	9.01	ug/l	96
69) o-Xylene	12.16	106	36593	4.50	ug/l	98
70) Styrene	12.18	104	59829	4.29	ug/l	100
71) Bromoform	12.34	173	9293	4.79	ug/l #	100
73) Isopropylbenzene	12.46	105	99655	4.49	ug/l	99
74) N-amyl acetate	12.27	43	29469	4.50	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	25098	5.57	ug/l	97
76) 1,2,3-Trichloropropane	12.76	75	31417	9.57	ug/l #	100
77) Bromobenzene	12.74	156	22876	5.22	ug/l	98
78) n-propylbenzene	12.80	91	139877	4.85	ug/l	100
79) 2-Chlorotoluene	12.89	91	78854	4.87	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	86192	4.52	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	7013	4.83	ug/l	92
82) 4-Chlorotoluene	12.99	91	82336	4.77	ug/l	99
83) tert-Butylbenzene	13.20	119	68469	4.43	ug/l	96
84) 1,2,4-Trimethylbenzene	13.25	105	84972	4.46	ug/l	98
85) sec-Butylbenzene	13.38	105	107234	4.59	ug/l	99
86) p-Isopropyltoluene	13.49	119	88798	4.42	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	45348	4.88	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	46915	5.13	ug/l	91
89) n-Butylbenzene	13.82	91	96797	4.47	ug/l	96
90) Hexachloroethane	14.09	117	20588	5.11	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	39672	4.88	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.48	75	4115	5.69	ug/l	87

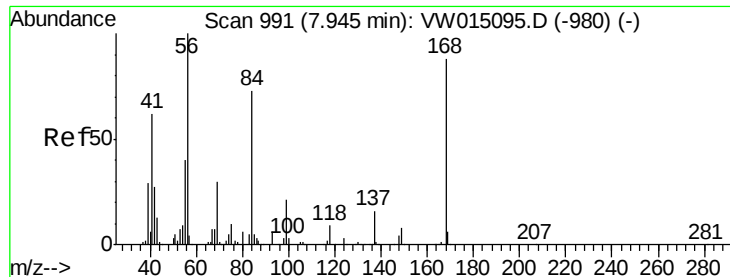
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW030920\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	19027	4.09	ug/l	98
94) Hexachlorobutadiene	15.23	225	14270	4.88	ug/l	99
95) Naphthalene	15.36	128	29534	3.40	ug/l	98
96) 1,2,3-Trichlorobenzene	15.55	180	17043	4.13	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

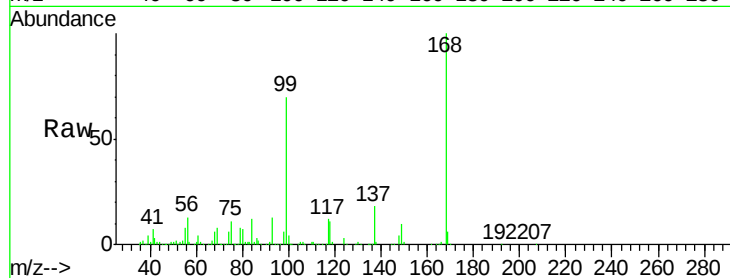
LOQ-SOIL-02-QT1-2020

Tgt Ion:168 Resp: 388949

Ion Ratio Lower Upper

168 100

99 70.1 57.2 85.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

100000

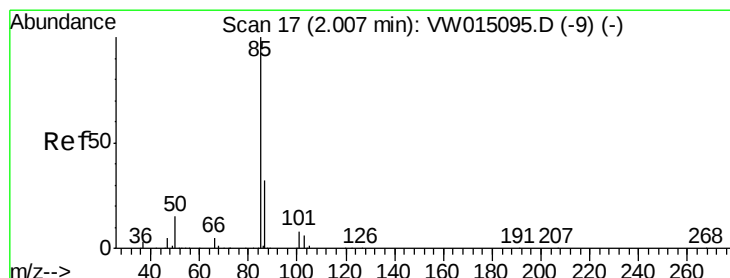
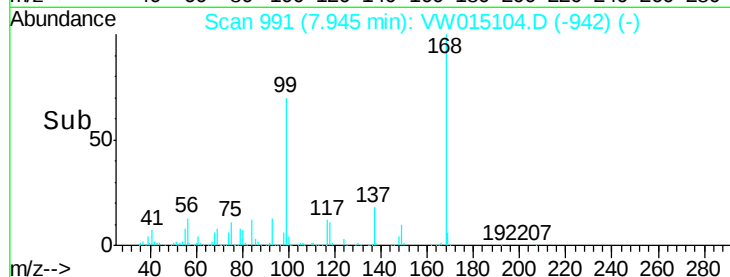
50000

0

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 4.73 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW015104.D

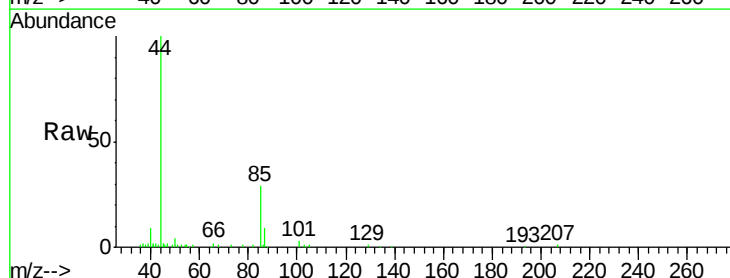
Acq: 09 Mar 2020 18:15

Tgt Ion: 85 Resp: 11166

Ion Ratio Lower Upper

85 100

87 30.9 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

4000

3000

2000

1000

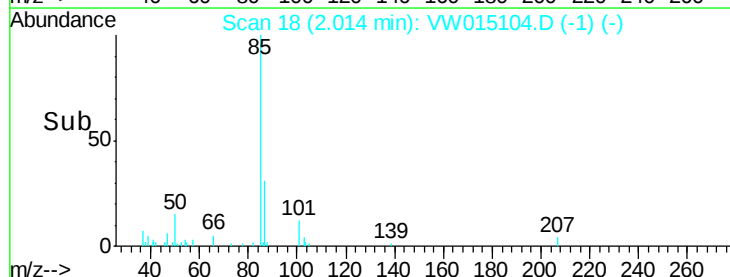
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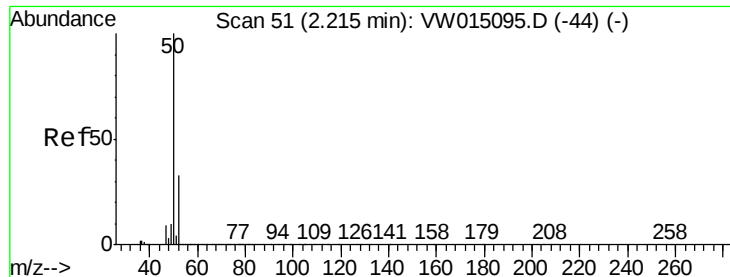
1.90

2.00

2.10

Time-->





#3

Chloromethane

Concen: 5.74 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

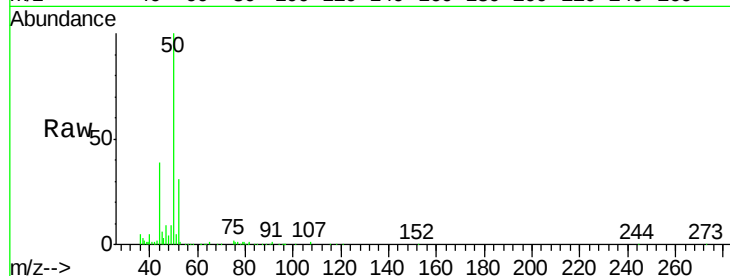
LOQ-SOIL-02-QT1-2020

Tgt Ion: 50 Resp: 29067

Ion Ratio Lower Upper

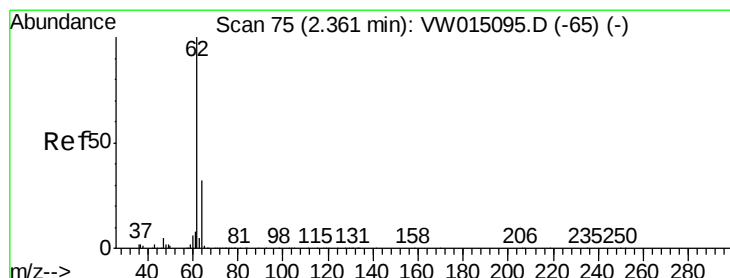
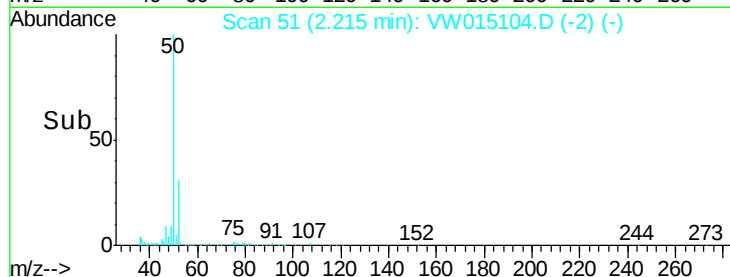
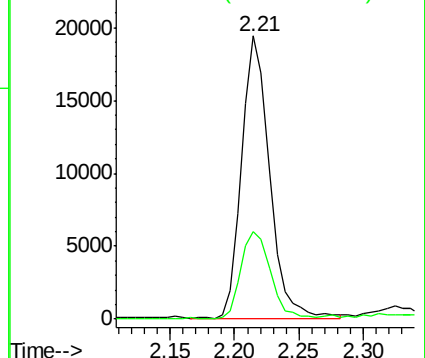
50 100

52 30.4 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 5.20 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW015104.D

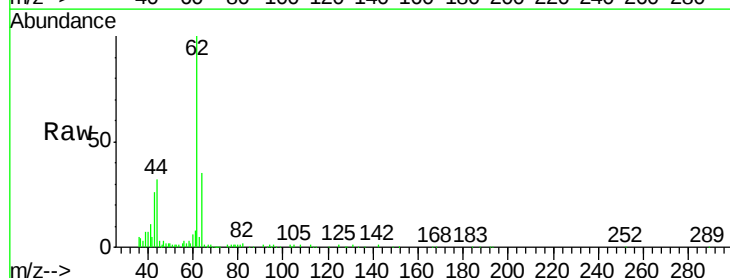
Acq: 09 Mar 2020 18:15

Tgt Ion: 62 Resp: 34460

Ion Ratio Lower Upper

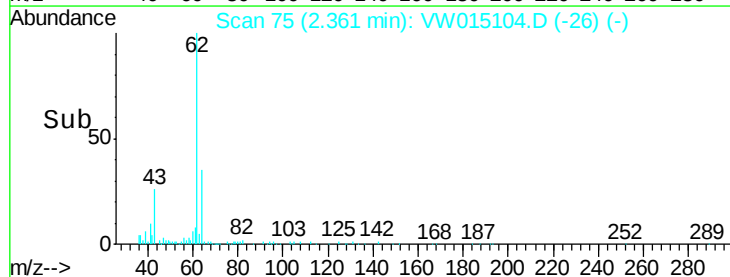
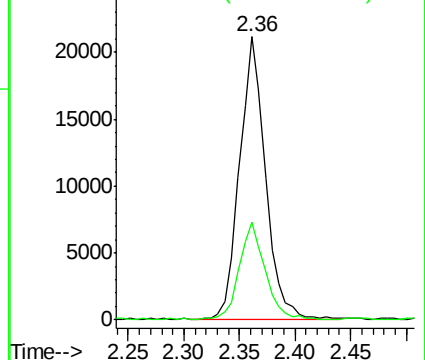
62 100

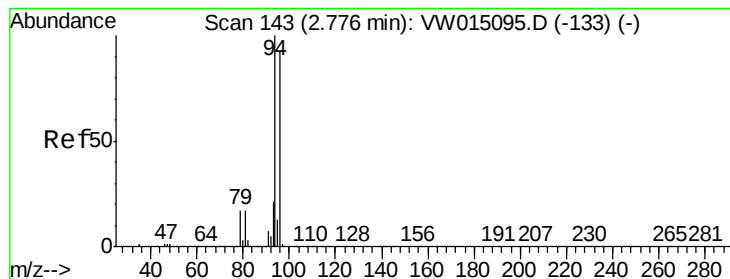
64 34.2 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 5.00 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

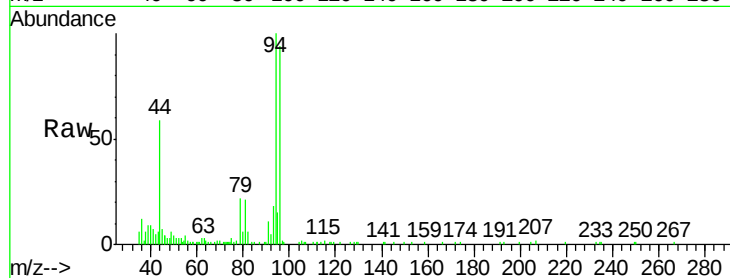
LOQ-SOIL-02-QT1-2020

Tgt Ion: 94 Resp: 18929

Ion Ratio Lower Upper

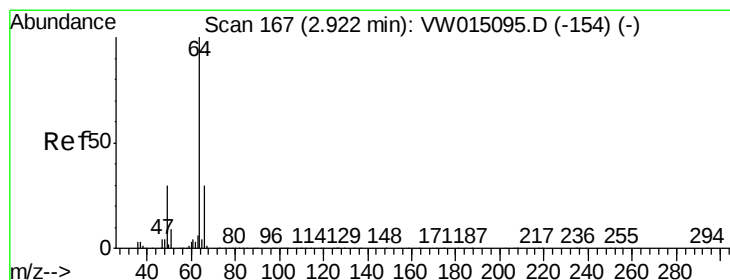
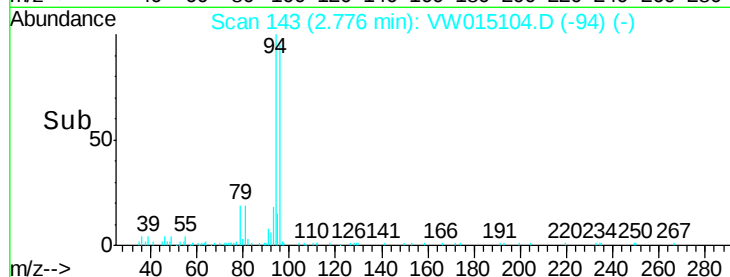
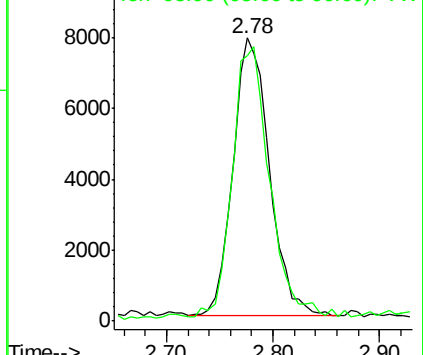
94 100

96 93.7 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 5.23 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW015104.D

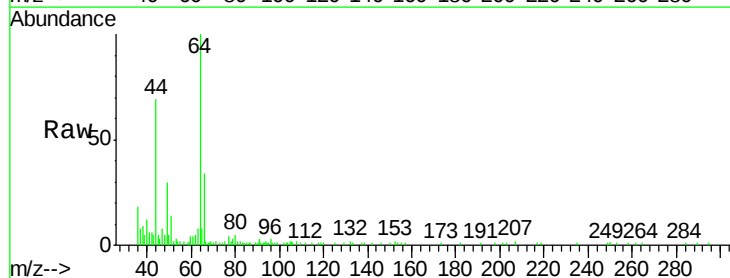
Acq: 09 Mar 2020 18:15

Tgt Ion: 64 Resp: 20089

Ion Ratio Lower Upper

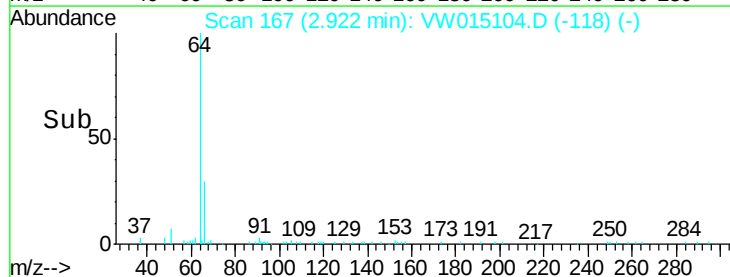
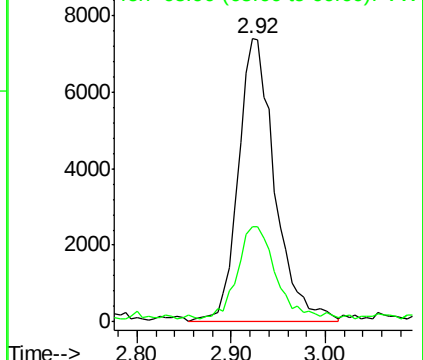
64 100

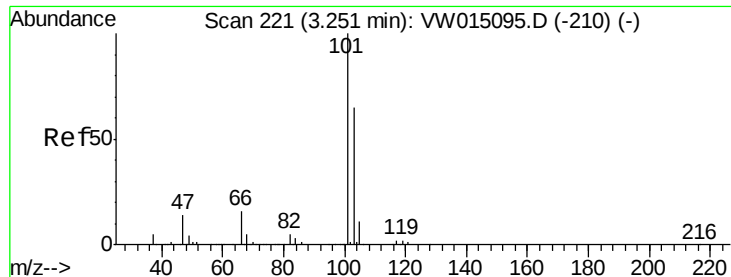
66 31.9 24.2 36.2



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#7

Trichlorofluoromethane

Concen: 5.08 ug/l

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

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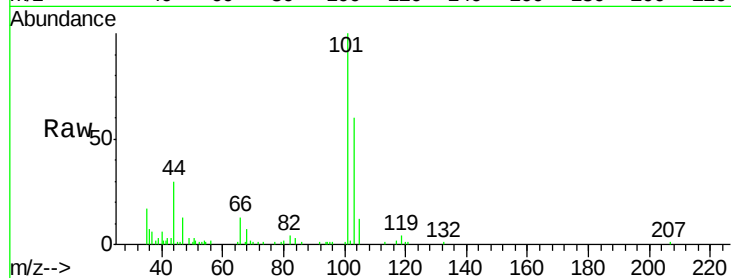
LOQ-SOIL-02-QT1-2020

Tgt Ion:101 Resp: 16845

Ion Ratio Lower Upper

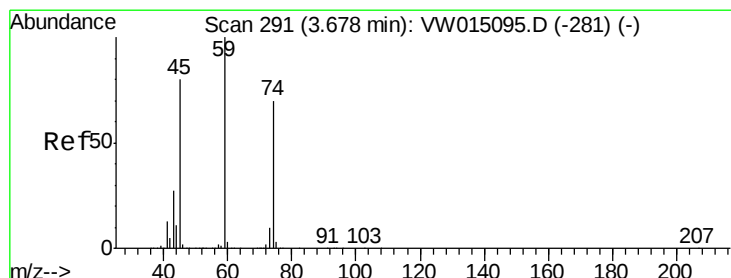
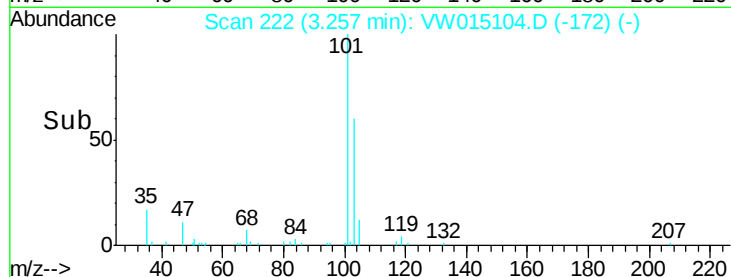
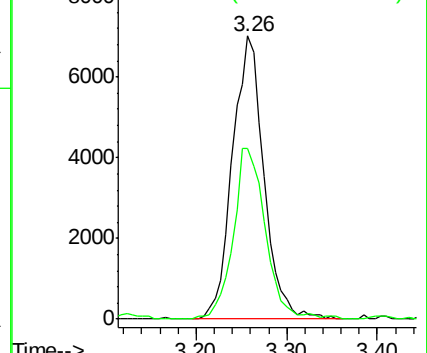
101 100

103 60.4 51.8 77.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 5.31 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW015104.D

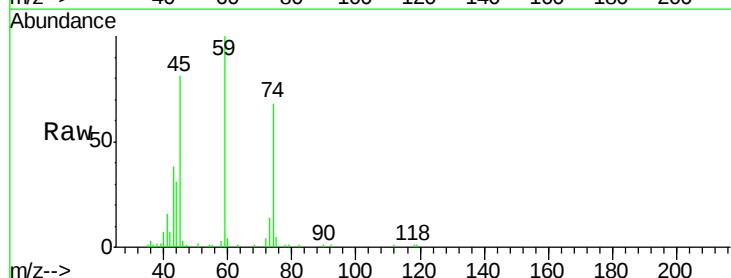
Acq: 09 Mar 2020 18:15

Tgt Ion: 74 Resp: 13422

Ion Ratio Lower Upper

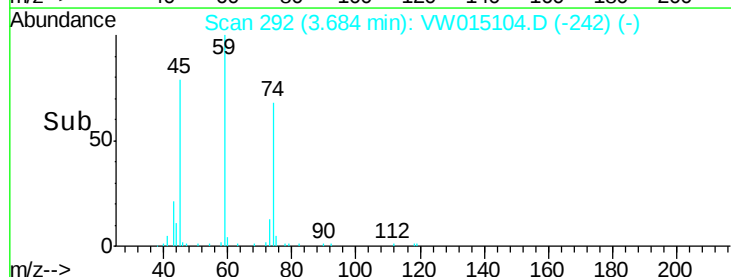
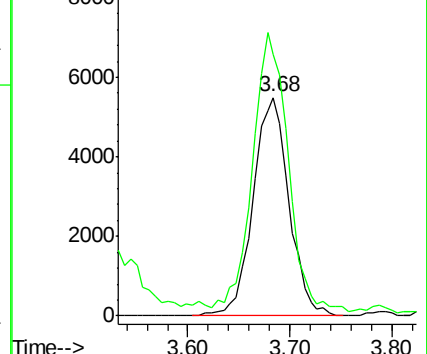
74 100

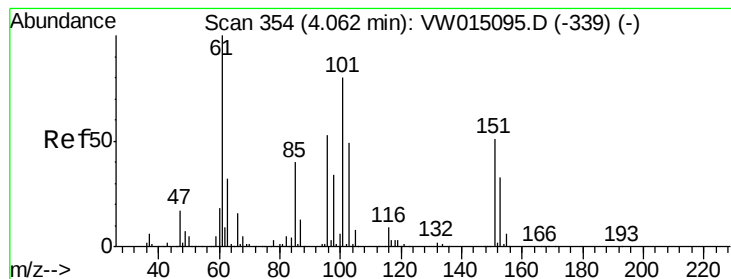
45 130.6 59.2 177.5



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: 5.19 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

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LOQ-SOIL-02-QT1-2020

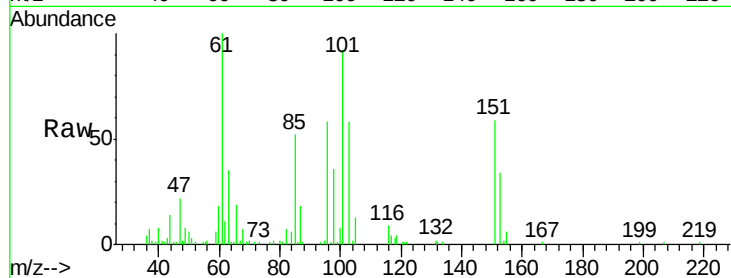
Tgt Ion:101 Resp: 26220

Ion Ratio Lower Upper

101 100

85 50.2 39.0 58.4

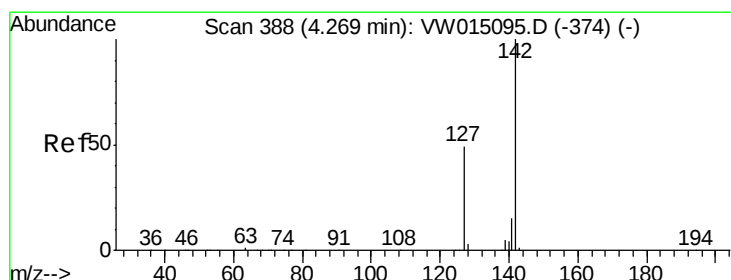
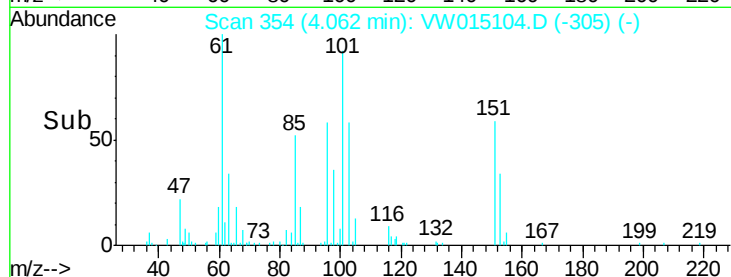
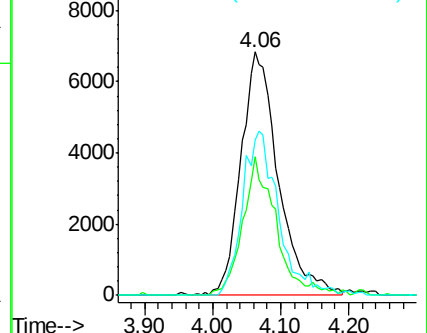
151 64.7 50.8 76.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 5.11 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

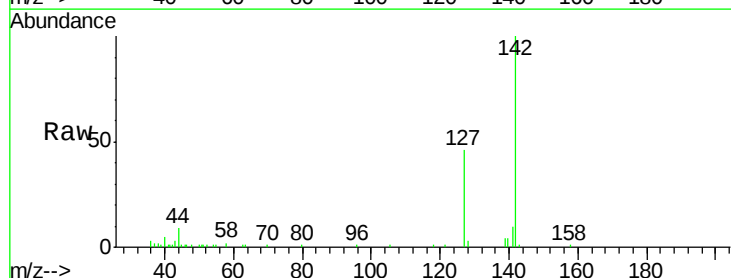
Tgt Ion:142 Resp: 28711

Ion Ratio Lower Upper

142 100

127 46.6 38.2 57.4

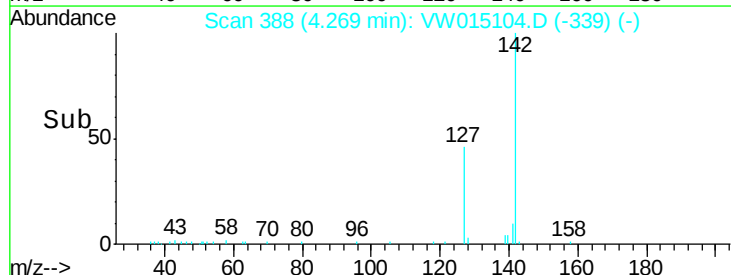
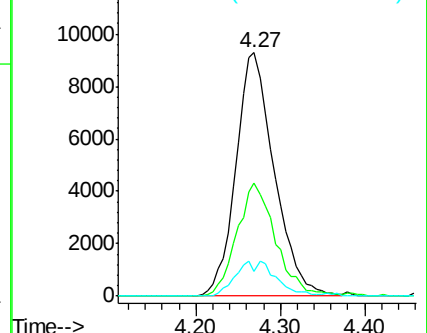
141 7.5 12.0 18.0#

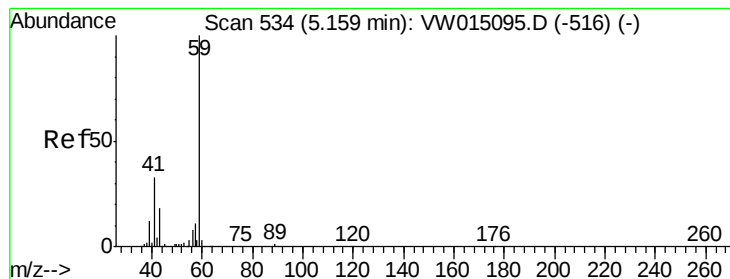


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 43.75 ug/l

RT: 5.16 min Scan# 534

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

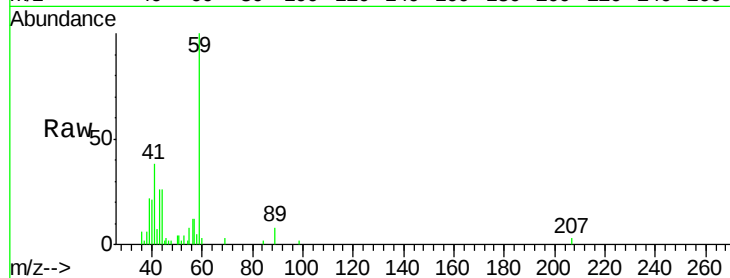
LOQ-SOIL-02-QT1-2020

Tgt Ion: 59 Resp: 14381

Ion Ratio Lower Upper

59 100

57 12.3 9.1 13.7



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.16

4000

3000

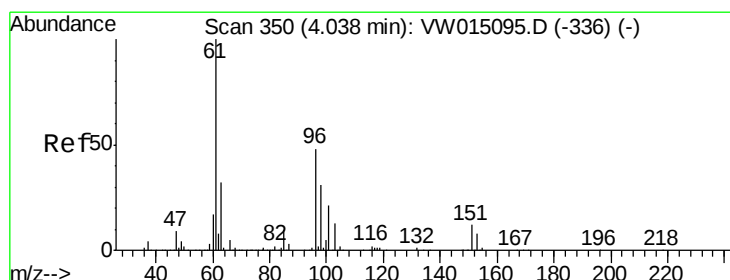
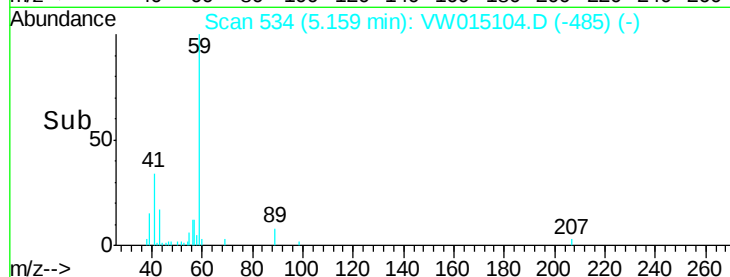
2000

1000

0

Time-->

5.00 5.10 5.20 5.30



#12

1,1-Dichloroethene

Concen: 4.96 ug/l

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

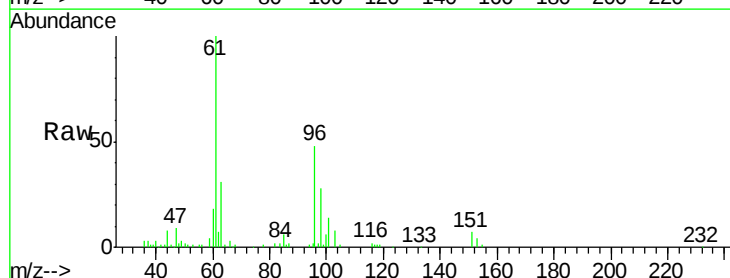
Tgt Ion: 96 Resp: 24513

Ion Ratio Lower Upper

96 100

61 207.3 165.5 248.3

98 57.6 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW

20000

15000

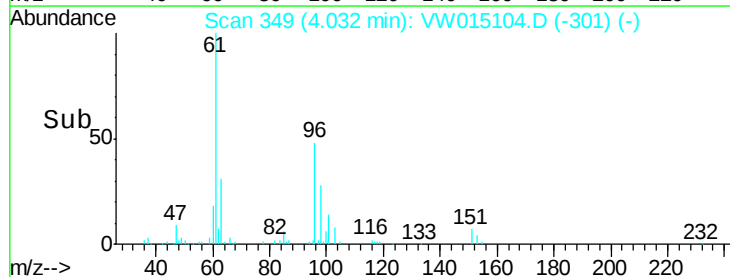
10000

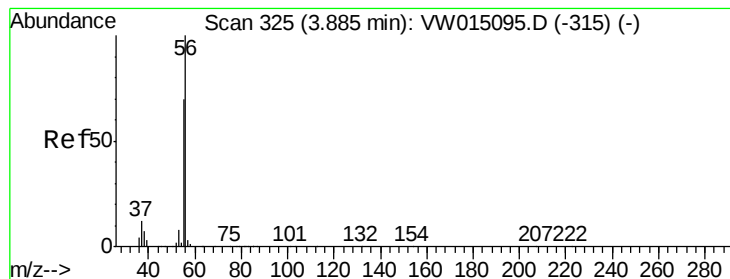
5000

0

Time-->

3.90 4.00 4.10





#13

Acrolein

Concen: 27.90 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

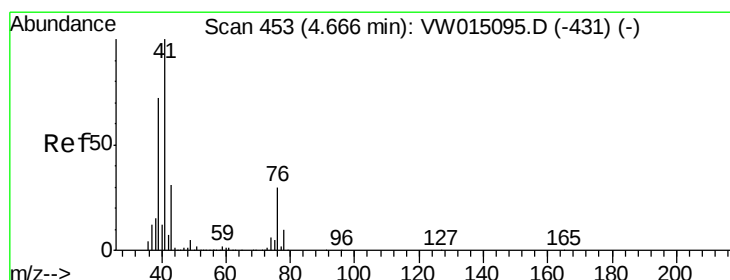
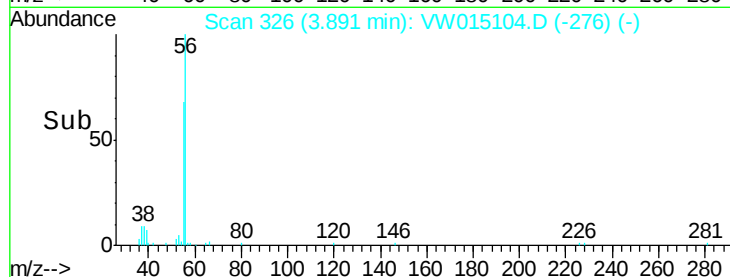
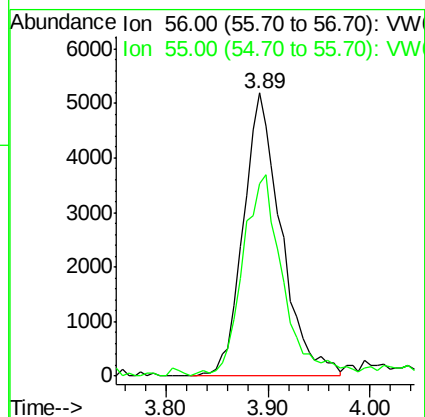
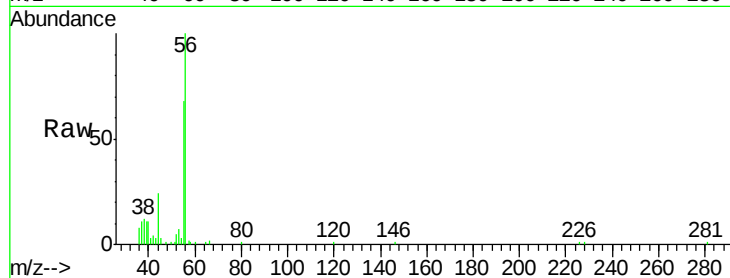
LOQ-SOIL-02-QT1-2020

Tgt Ion: 56 Resp: 13410

Ion Ratio Lower Upper

56 100

55 76.0 55.4 83.2



#14

Allyl chloride

Concen: 4.90 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

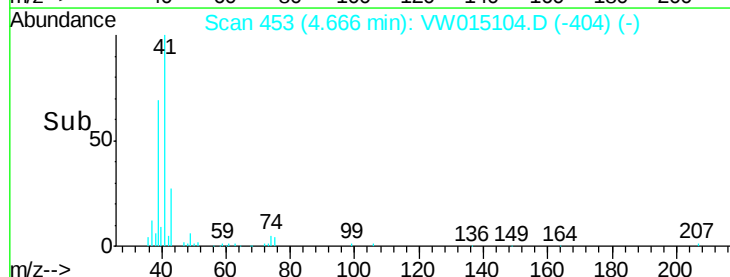
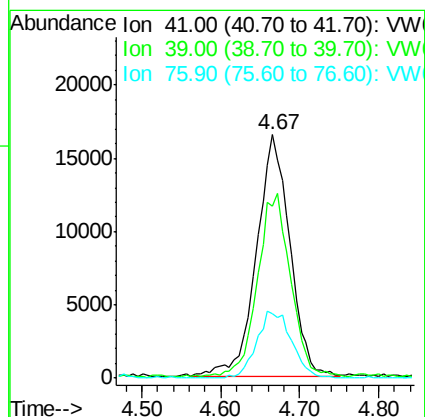
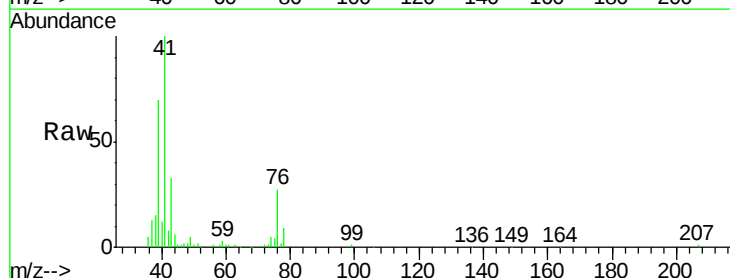
Tgt Ion: 41 Resp: 48507

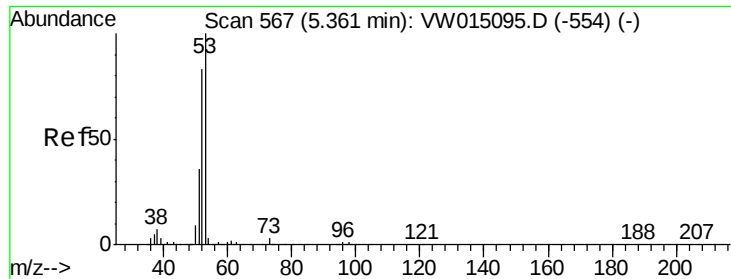
Ion Ratio Lower Upper

41 100

39 74.8 56.9 85.3

76 28.8 23.2 34.8





#15

Acrylonitrile

Concen: 26.92 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

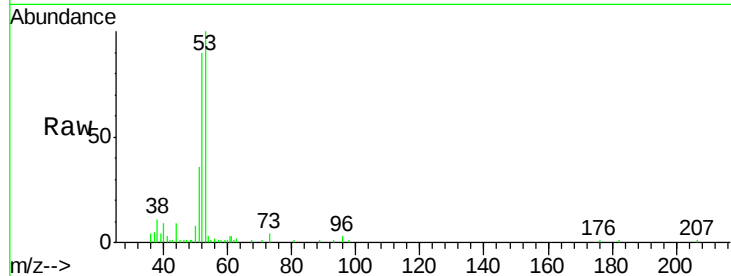
Tgt Ion: 53 Resp: 34864

Ion Ratio Lower Upper

53 100

52 85.5 67.2 100.8

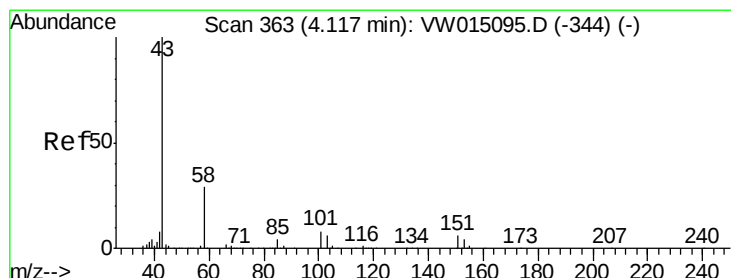
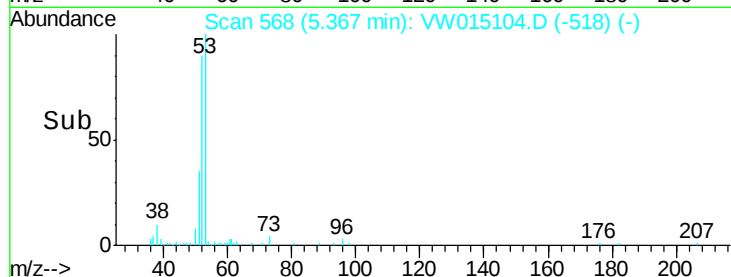
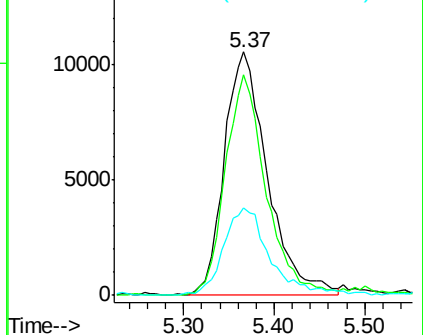
51 38.4 29.8 44.6



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: 29.63 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW015104.D

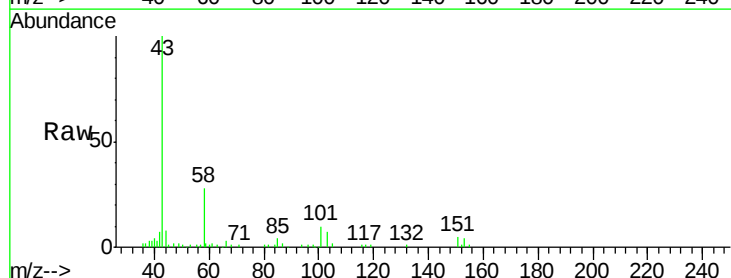
Acq: 09 Mar 2020 18:15

Tgt Ion: 43 Resp: 38642

Ion Ratio Lower Upper

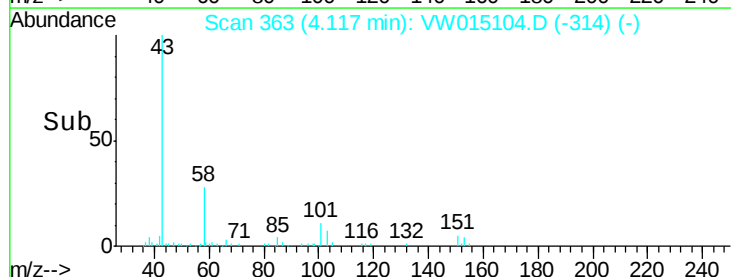
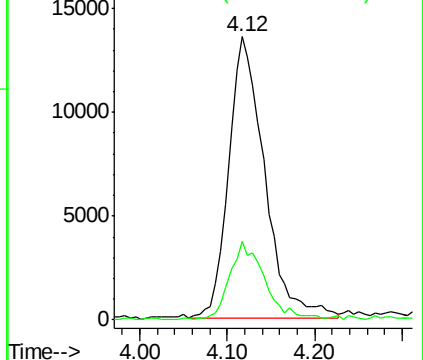
43 100

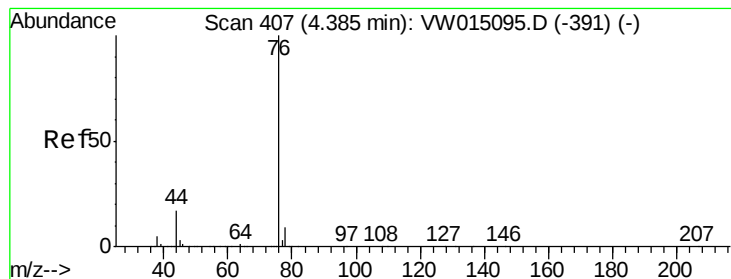
58 27.2 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 5.05 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

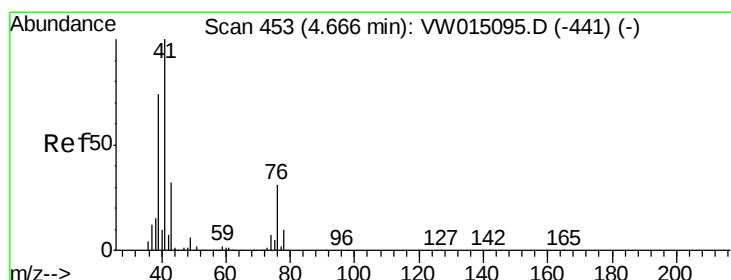
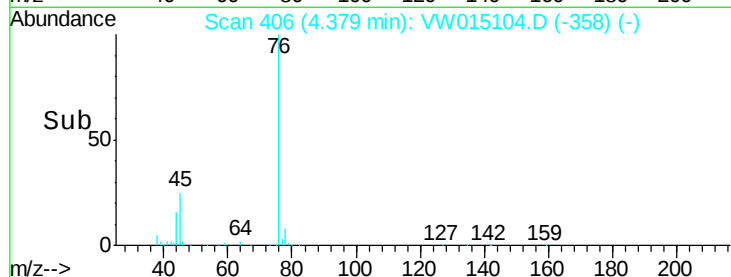
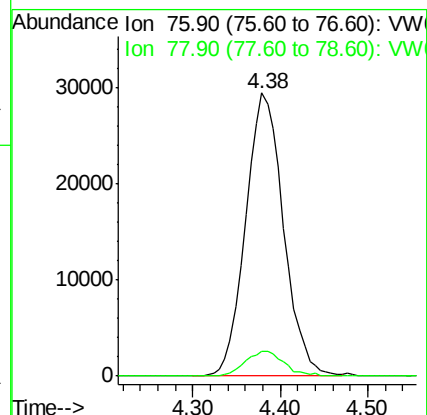
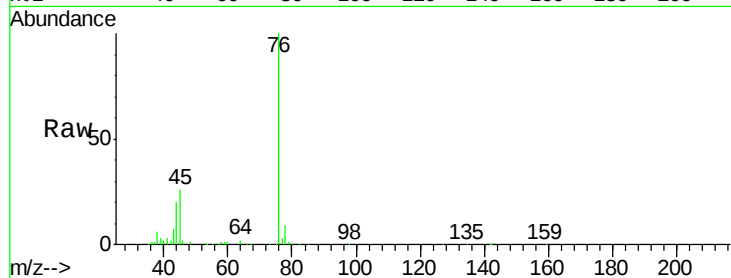
LOQ-SOIL-02-QT1-2020

Tgt Ion: 76 Resp: 88556

Ion Ratio Lower Upper

76 100

78 9.0 6.9 10.3



#18

Methyl Acetate

Concen: 5.68 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW015104.D

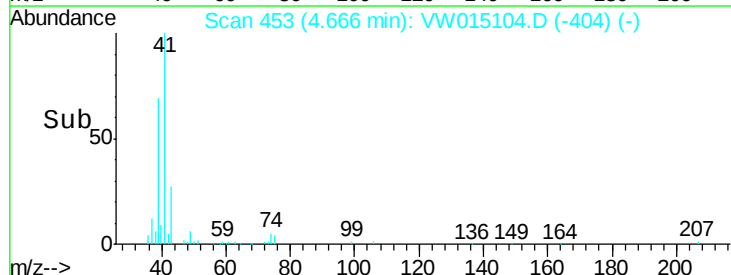
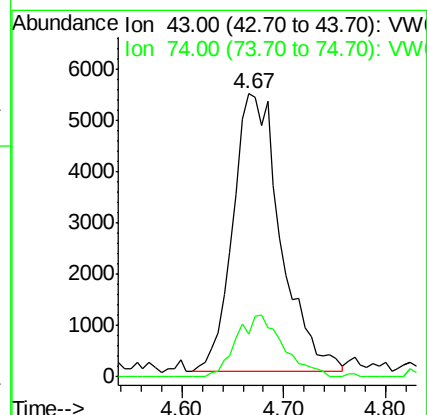
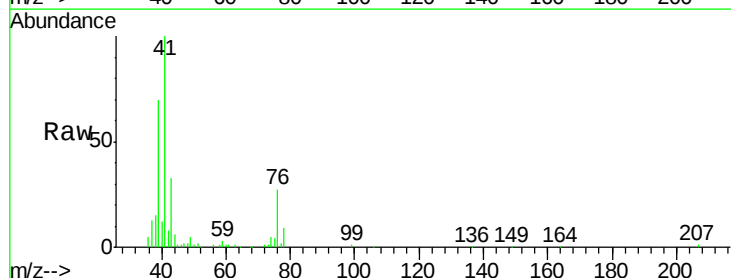
Acq: 09 Mar 2020 18:15

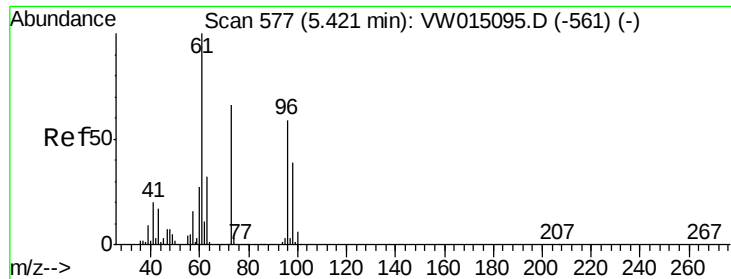
Tgt Ion: 43 Resp: 17574

Ion Ratio Lower Upper

43 100

74 21.8 15.8 23.6

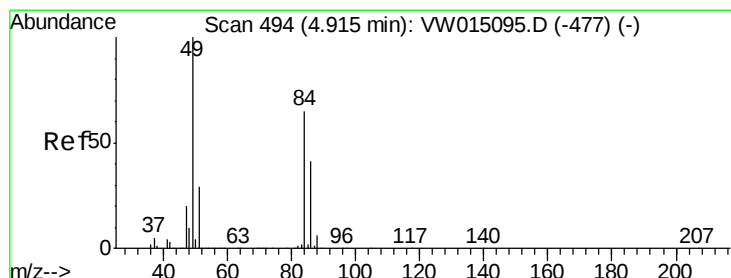
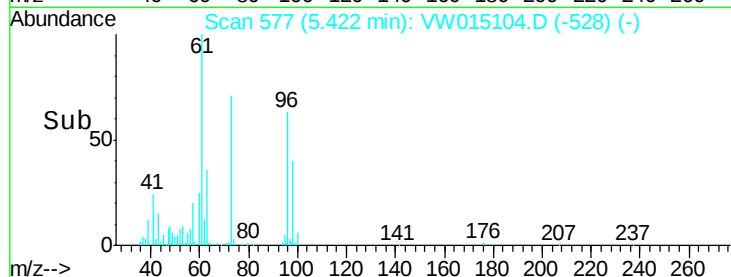
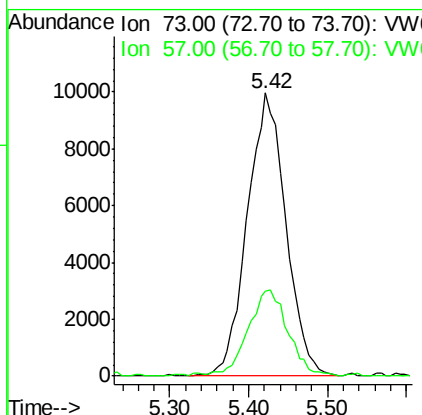
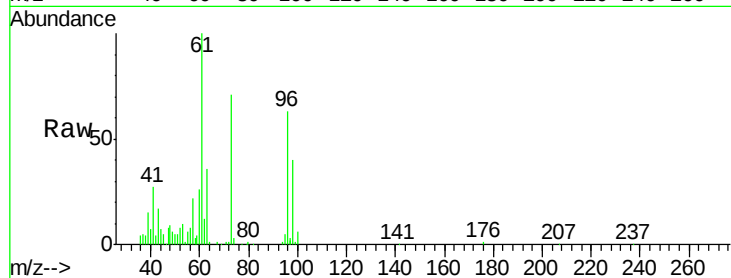




#19
Methyl tert-butyl Ether
Concen: 5.36 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

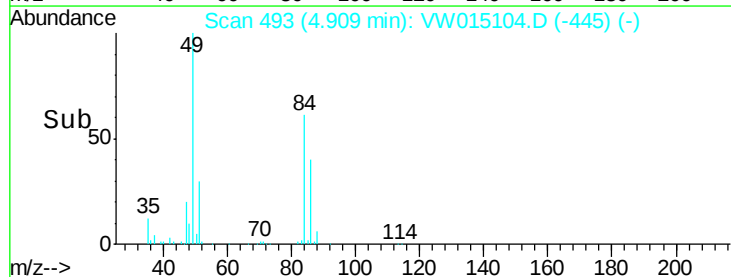
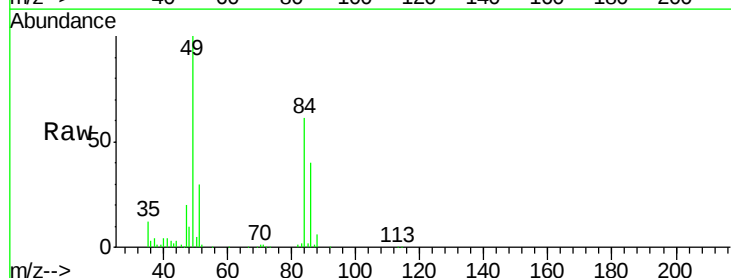
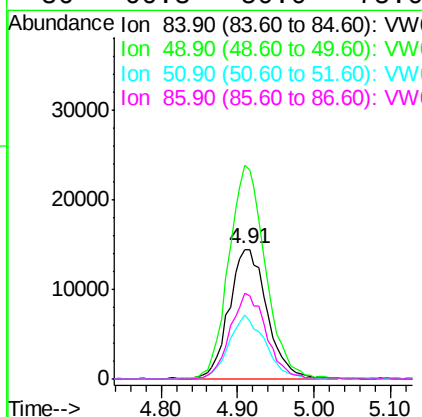
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

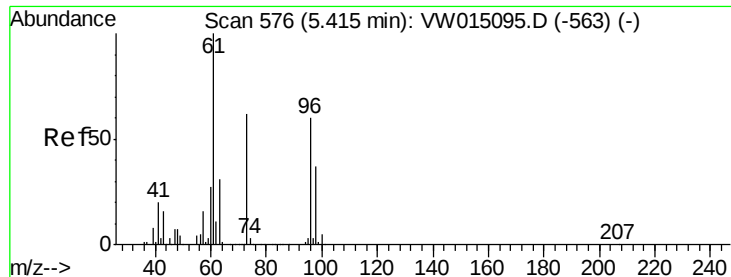
Tgt Ion: 73 Resp: 33878
Ion Ratio Lower Upper
73 100
57 30.2 19.3 28.9#



#20
Methylene Chloride
Concen: 8.25 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion: 84 Resp: 49829
Ion Ratio Lower Upper
84 100
49 165.1 122.8 184.2
51 49.3 35.9 53.9
86 66.3 50.0 75.0





#21

trans-1,2-Dichloroethene

Concen: 5.10 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

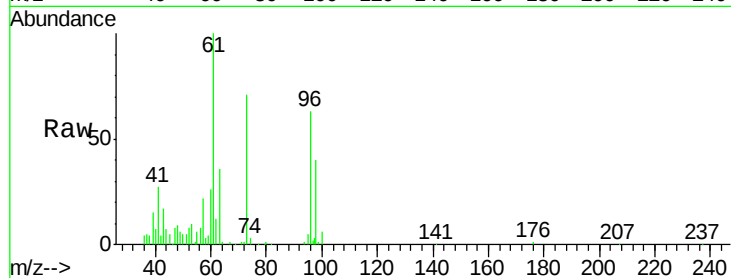
Tgt Ion: 96 Resp: 26737

Ion Ratio Lower Upper

96 100

61 159.7 132.5 198.7

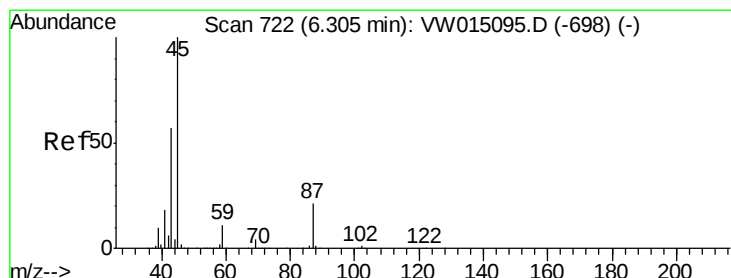
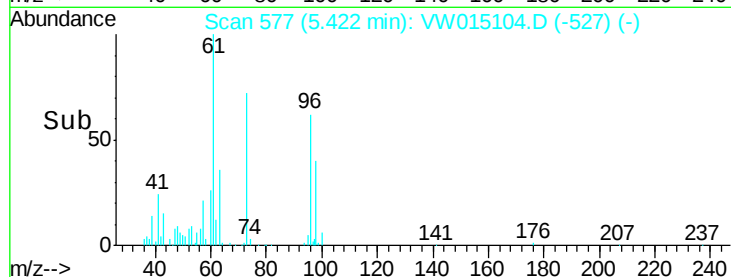
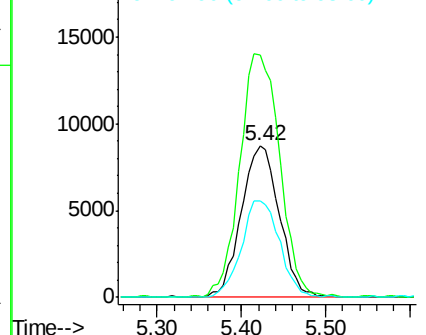
98 63.2 48.9 73.3



Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 4.86 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Tgt Ion: 45 Resp: 92390

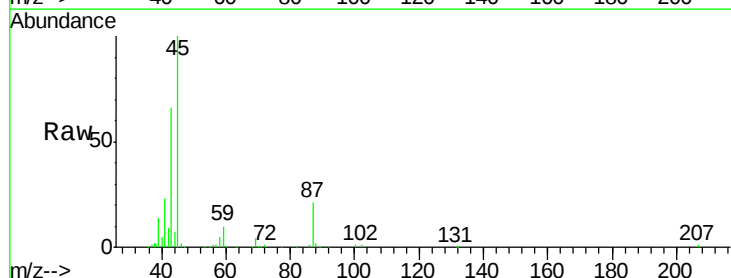
Ion Ratio Lower Upper

45 100

43 64.2 45.4 68.0

87 20.3 16.4 24.6

59 9.9 8.4 12.6

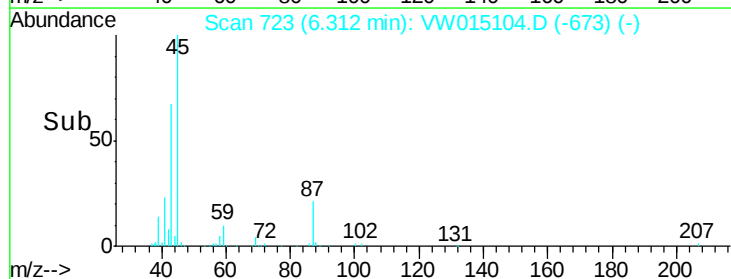
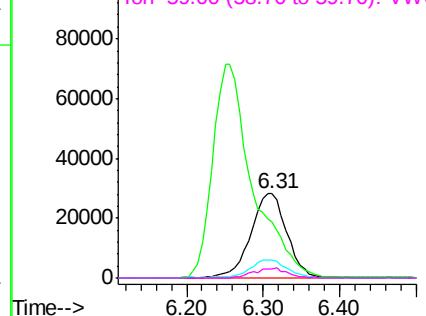


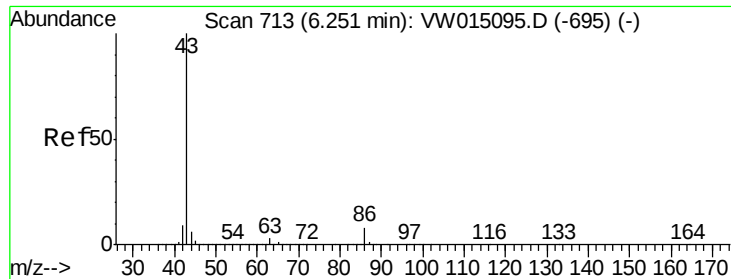
Abundance Ion 45.00 (44.70 to 45.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW

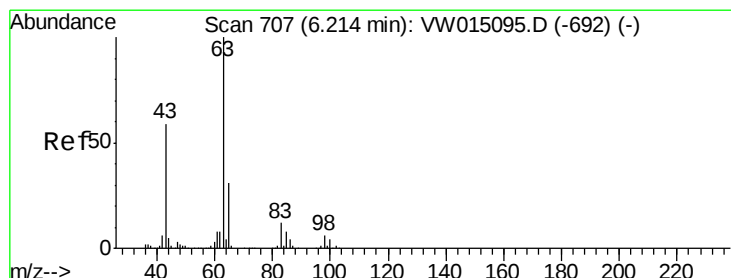
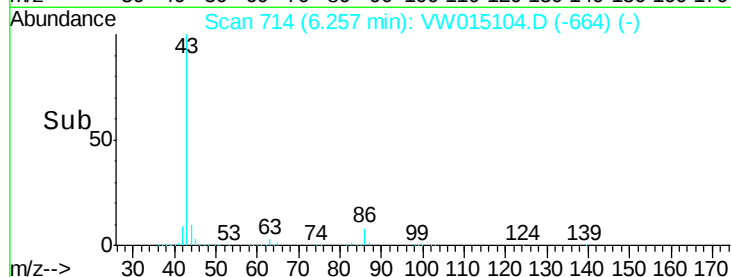
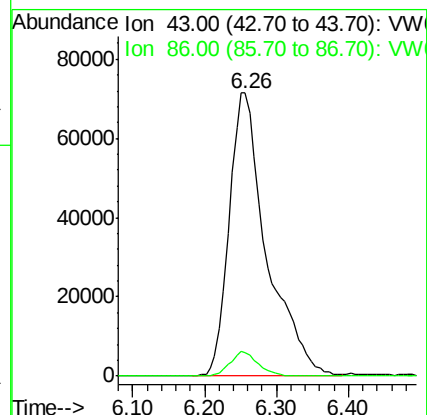
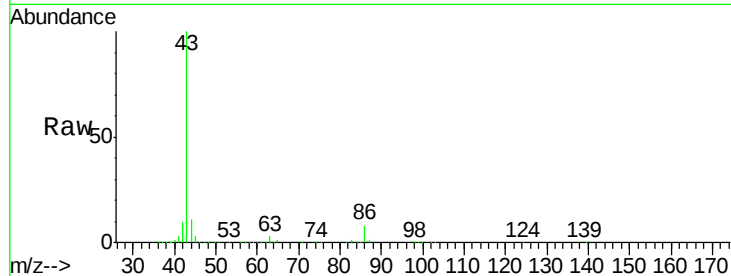




#23
 Vinyl Acetate
 Concen: 23.11 ug/l
 RT: 6.26 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

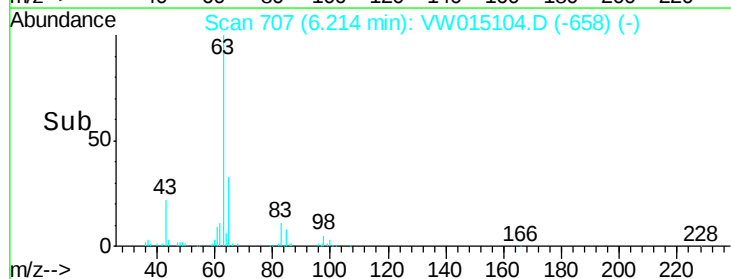
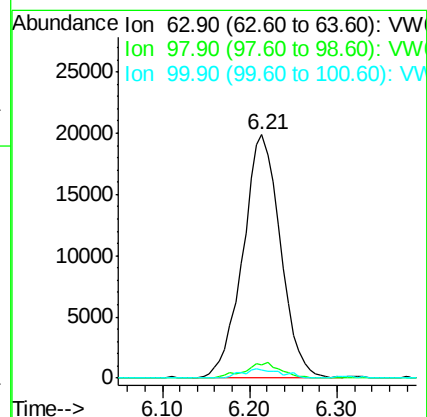
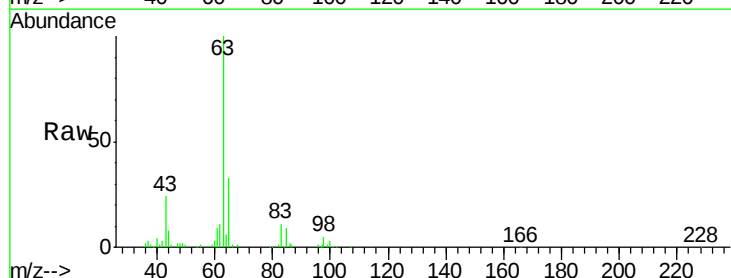
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

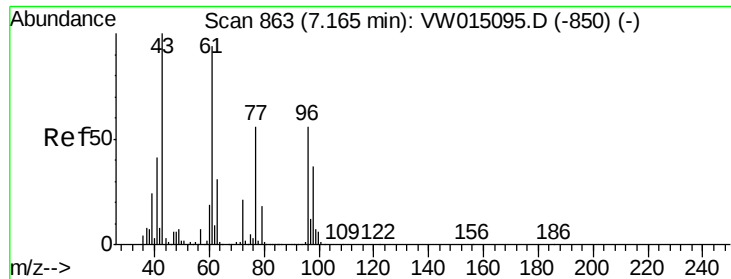
Tgt Ion: 43 Resp: 259255
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.3 9.5



#24
 1,1-Dichloroethane
 Concen: 5.36 ug/l
 RT: 6.21 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

Tgt Ion: 63 Resp: 59422
 Ion Ratio Lower Upper
 63 100
 98 5.4 2.9 8.8
 100 3.3 2.1 6.3





#25

2-Butanone

Concen: 27.43 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

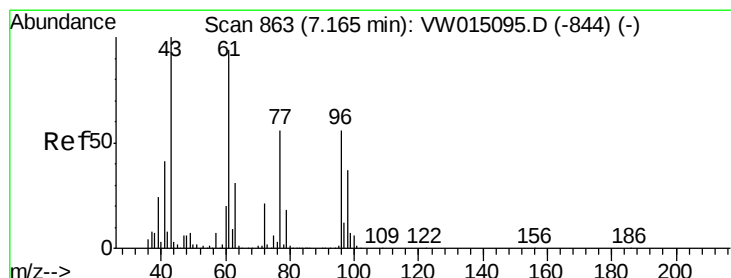
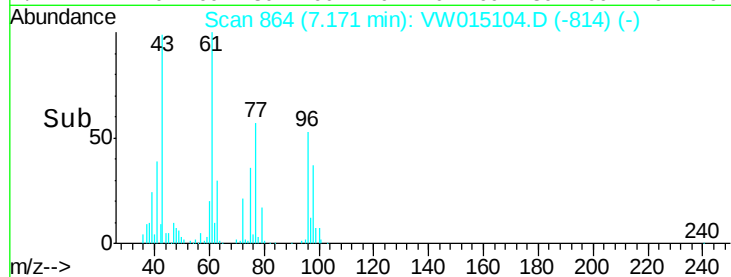
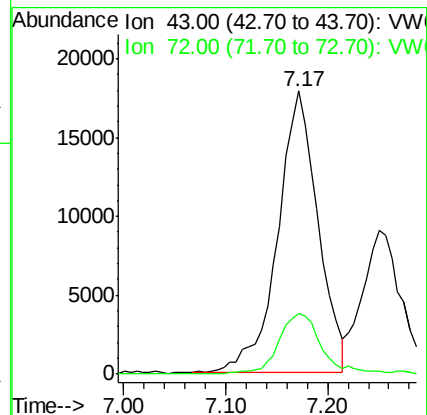
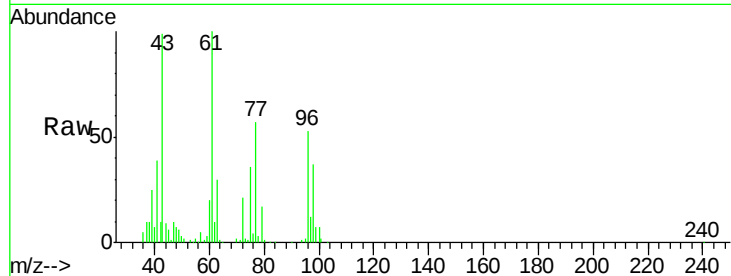
LOQ-SOIL-02-QT1-2020

Tgt Ion: 43 Resp: 49040

Ion Ratio Lower Upper

43 100

72 21.5 17.0 25.6



#26

2,2-Dichloropropane

Concen: 5.93 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW015104.D

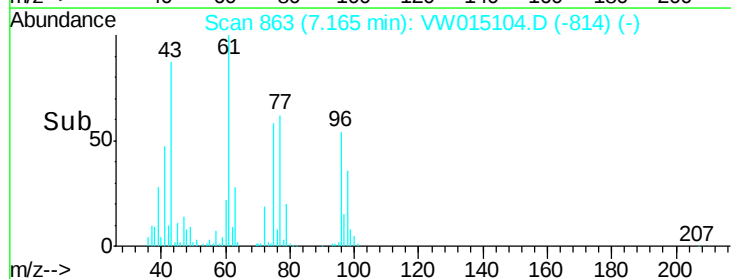
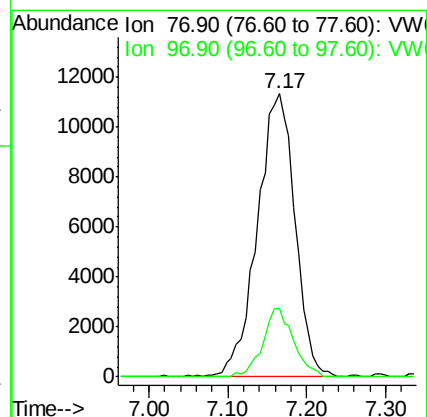
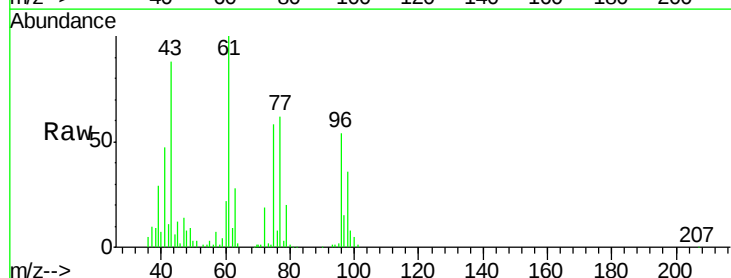
Acq: 09 Mar 2020 18:15

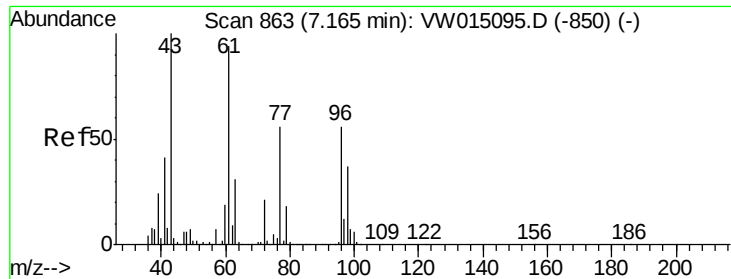
Tgt Ion: 77 Resp: 37602

Ion Ratio Lower Upper

77 100

97 19.7 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 5.03 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

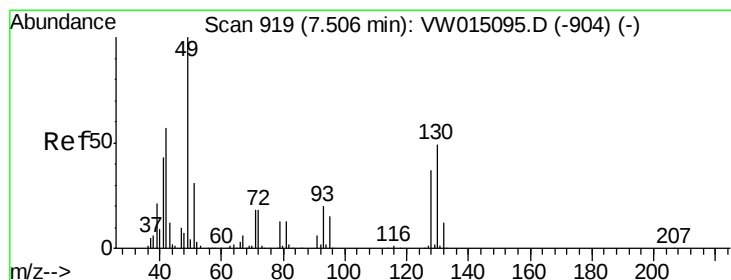
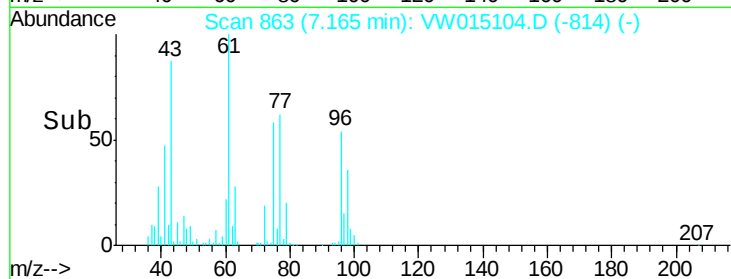
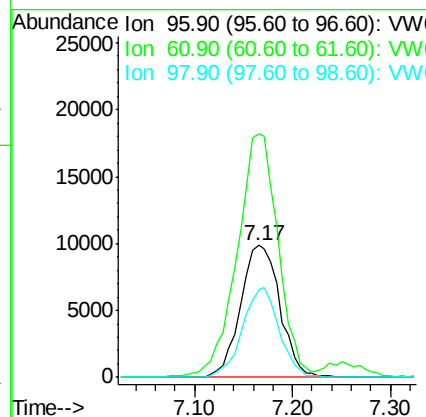
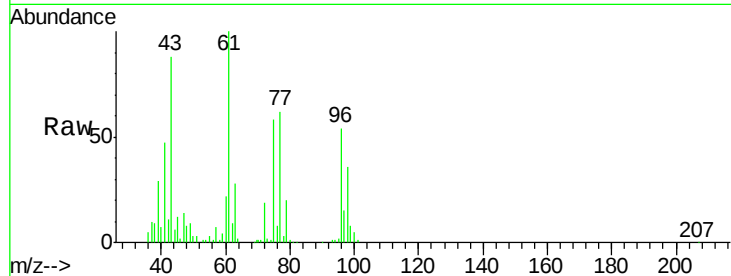
Tgt Ion: 96 Resp: 27486

Ion Ratio Lower Upper

96 100

61 192.2 0.0 343.4

98 63.3 0.0 127.6



#28

Bromochloromethane

Concen: 5.41 ug/l

RT: 7.51 min Scan# 919

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

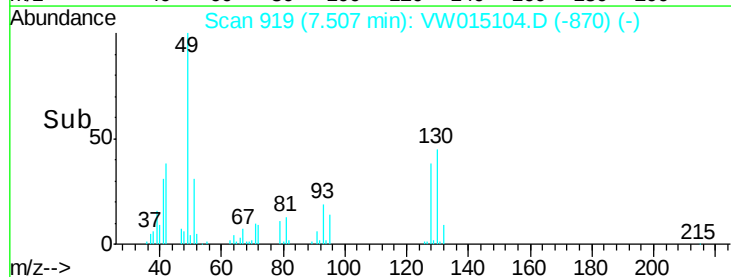
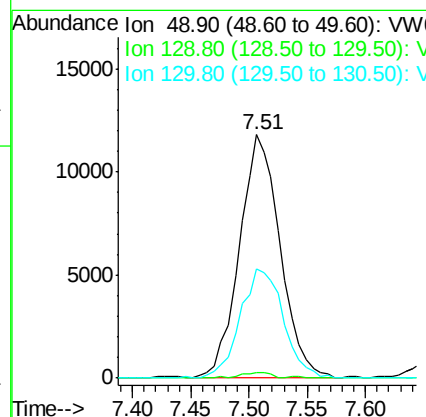
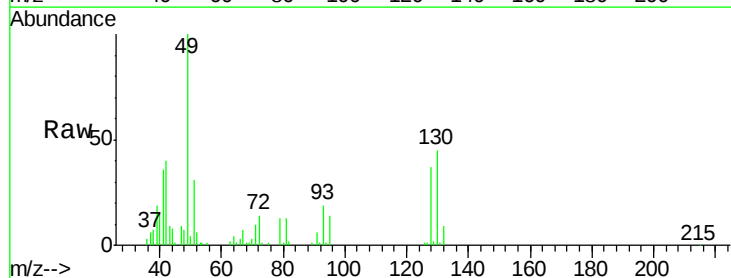
Tgt Ion: 49 Resp: 28734

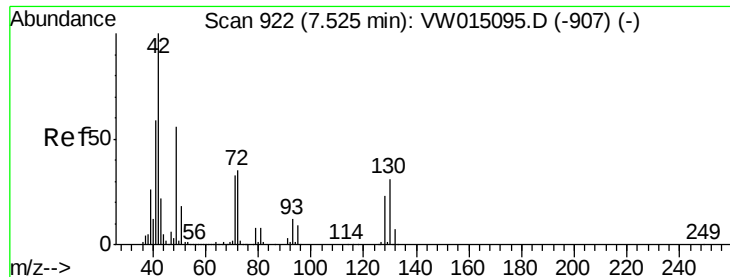
Ion Ratio Lower Upper

49 100

129 1.6 0.0 3.0

130 47.5 39.8 59.6





#29

Tetrahydrofuran

Concen: 25.93 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

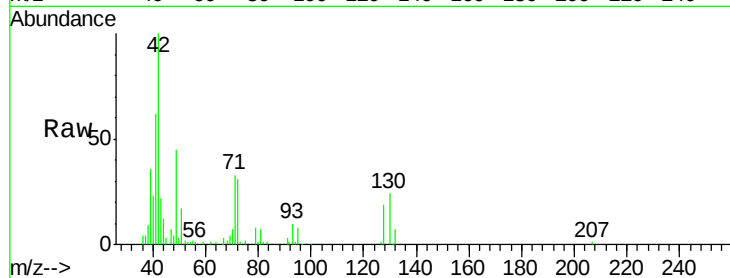
Tgt Ion: 42 Resp: 29005

Ion Ratio Lower Upper

42 100

72 35.9 27.8 41.6

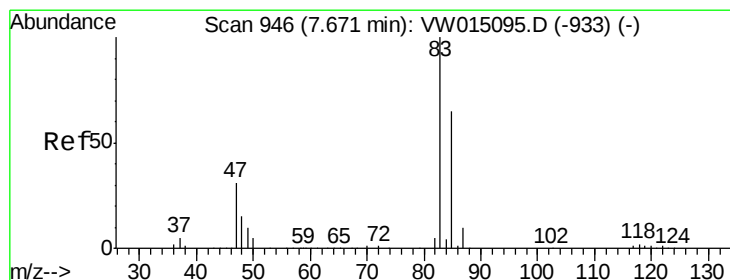
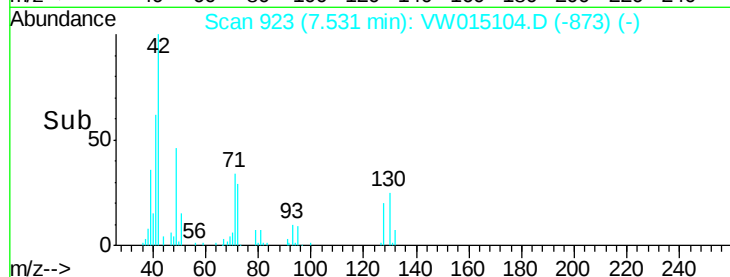
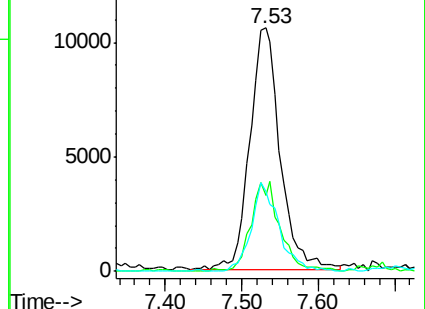
71 33.6 26.4 39.6



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: 5.34 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW015104.D

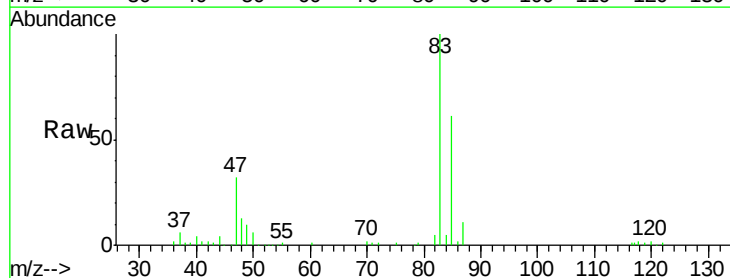
Acq: 09 Mar 2020 18:15

Tgt Ion: 83 Resp: 52466

Ion Ratio Lower Upper

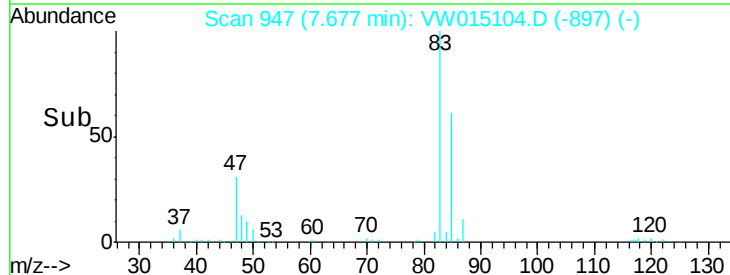
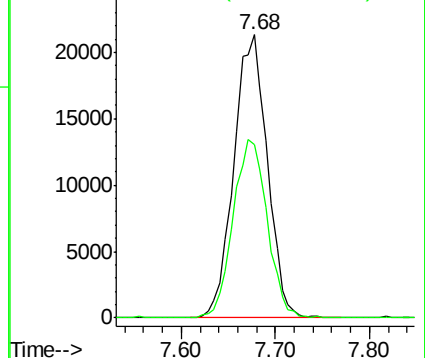
83 100

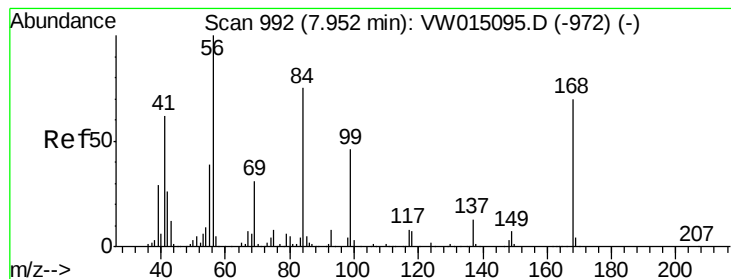
85 61.3 51.9 77.9



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 5.72 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

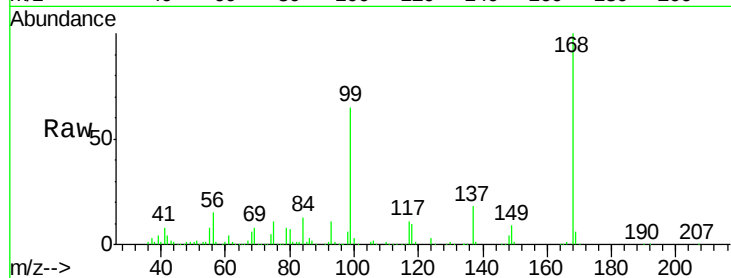
Tgt Ion: 56 Resp: 65143

Ion Ratio Lower Upper

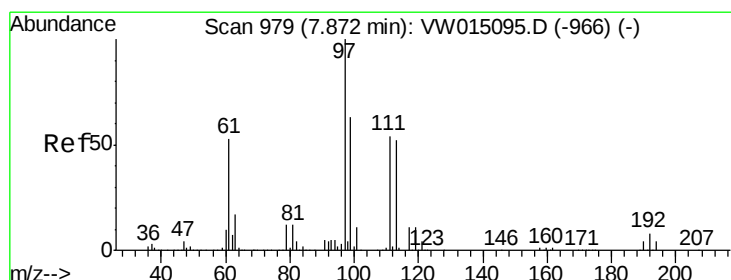
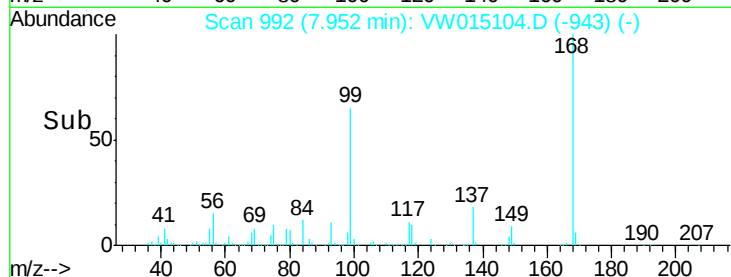
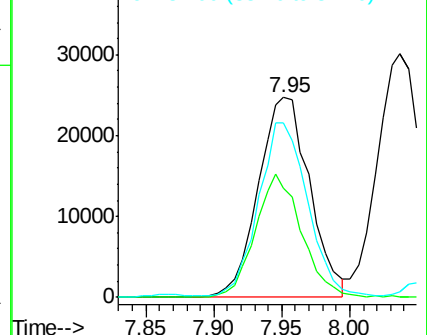
56 100

69 54.7 24.6 37.0#

84 86.9 59.9 89.9



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: 5.37 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

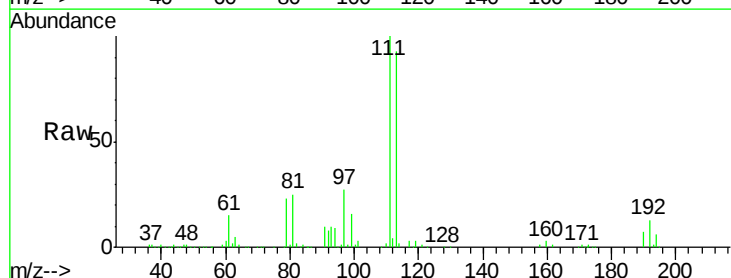
Tgt Ion: 97 Resp: 41265

Ion Ratio Lower Upper

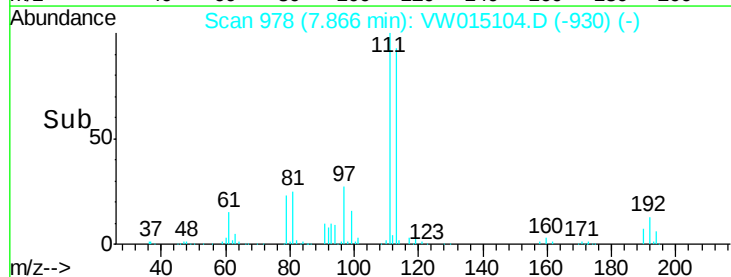
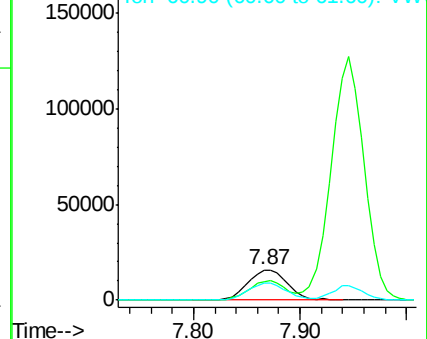
97 100

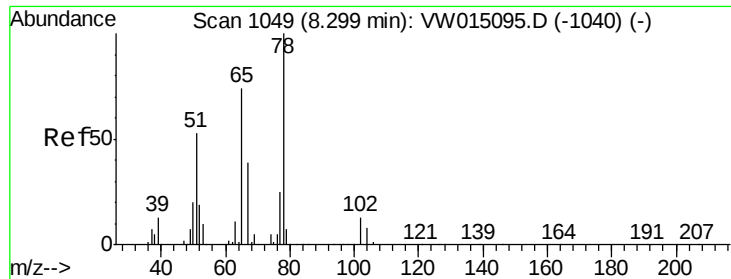
99 58.9 51.3 76.9

61 55.0 44.0 66.0



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

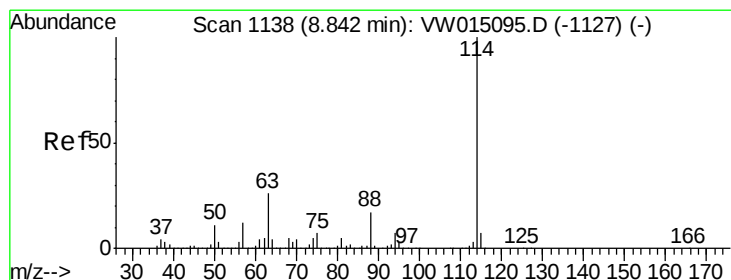
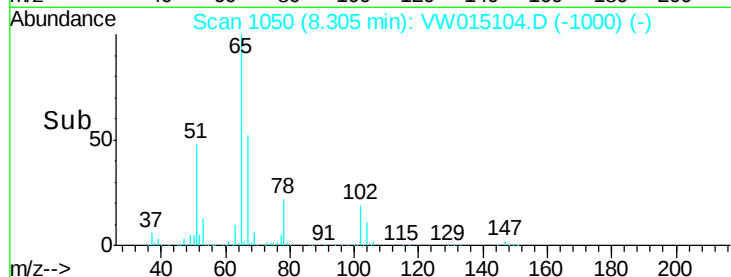
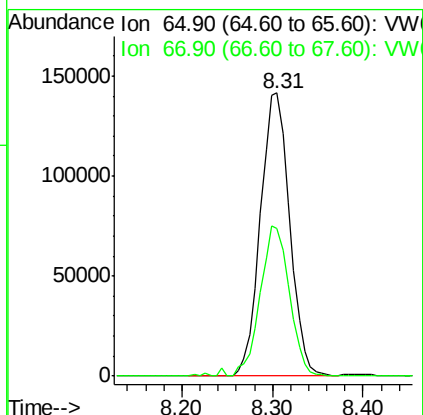
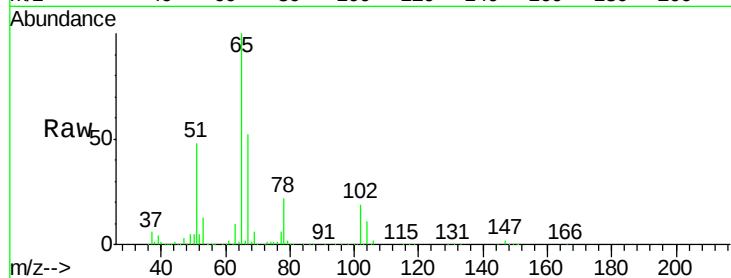




#33
 1,2-Dichloroethane-d4
 Concen: 55.33 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

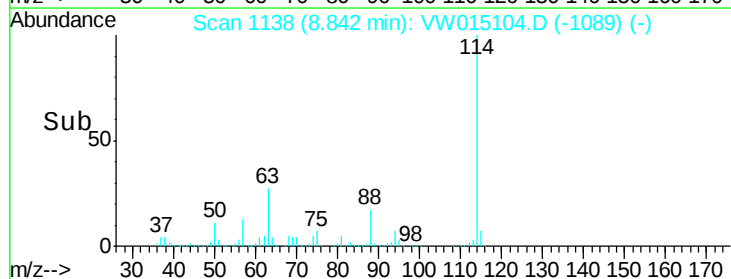
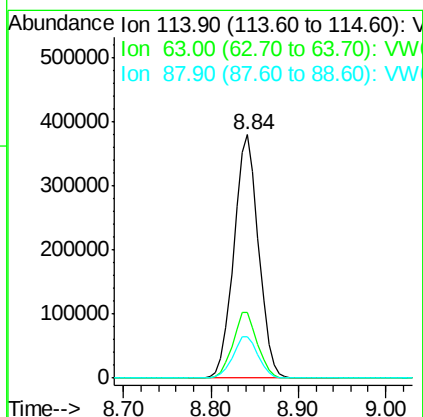
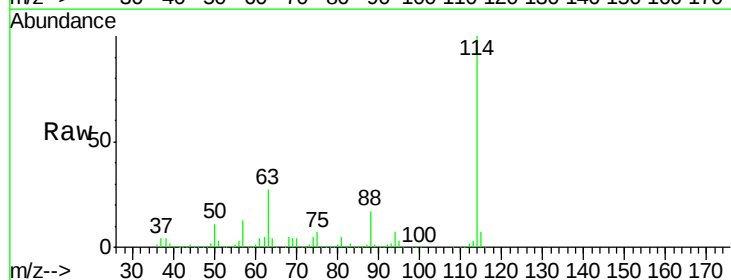
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

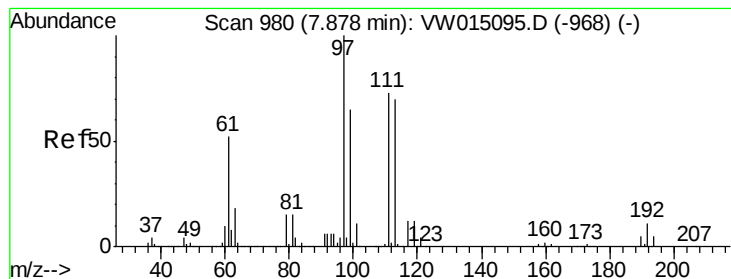
Tgt Ion: 65 Resp: 316438
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

Tgt Ion: 114 Resp: 743642
 Ion Ratio Lower Upper
 114 100
 63 26.8 0.0 52.0
 88 17.2 0.0 34.2





#35

Dibromofluoromethane

Concen: 52.10 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

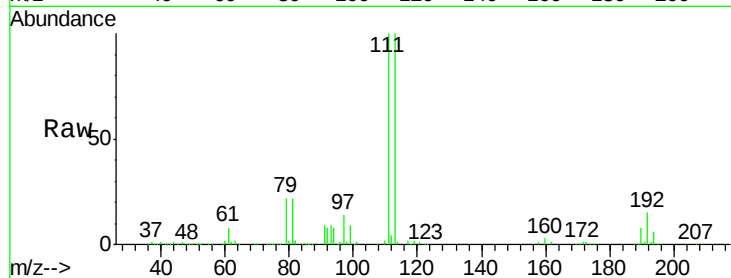
Tgt Ion:113 Resp: 231942

Ion Ratio Lower Upper

113 100

111 104.2 83.6 125.4

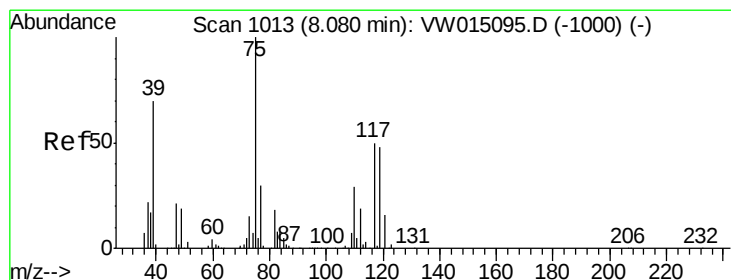
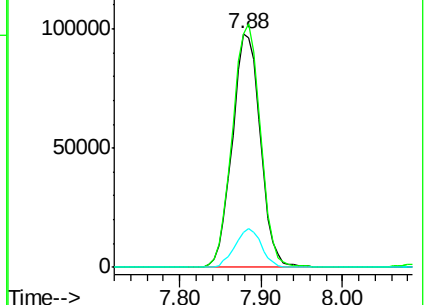
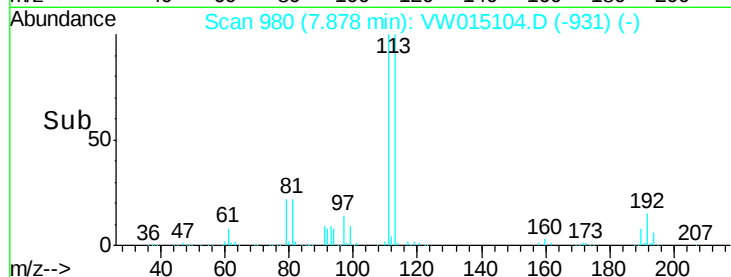
192 15.7 12.4 18.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.09 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

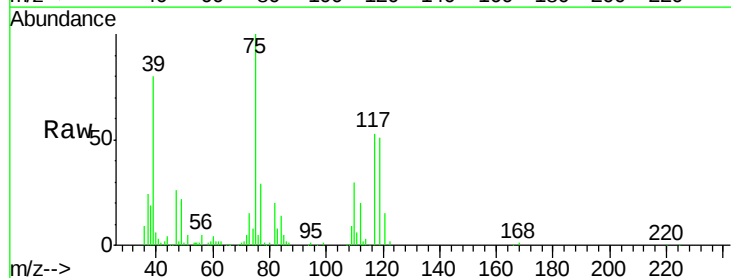
Tgt Ion: 75 Resp: 43938

Ion Ratio Lower Upper

75 100

110 29.1 14.7 44.1

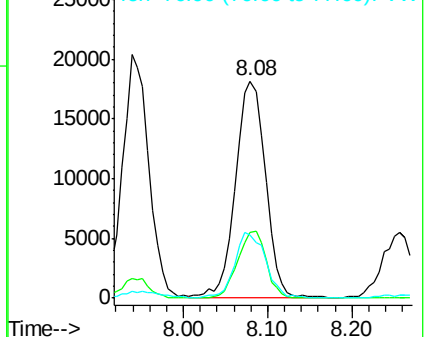
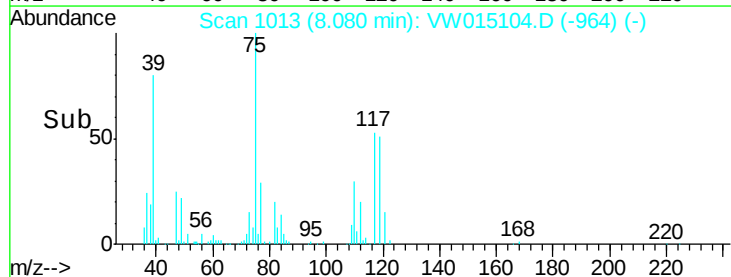
77 30.8 24.2 36.4

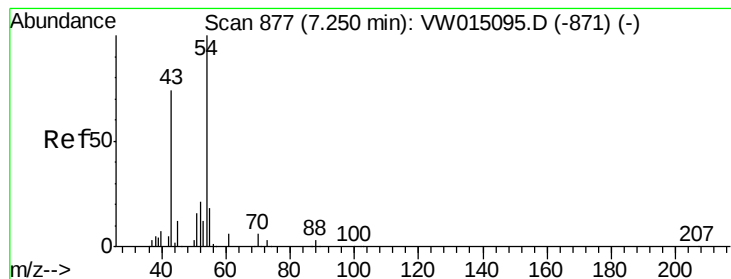


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 5.50 ug/l

RT: 7.25 min Scan# 877

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

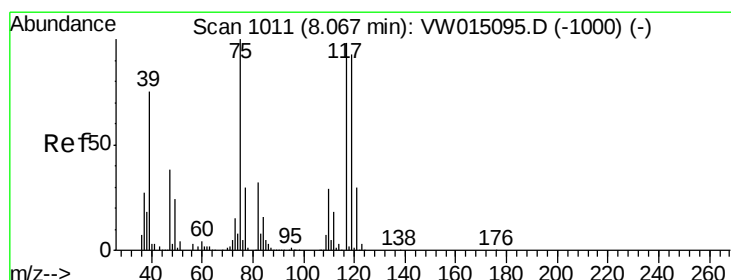
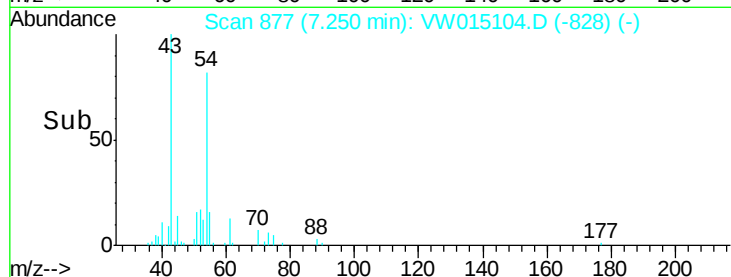
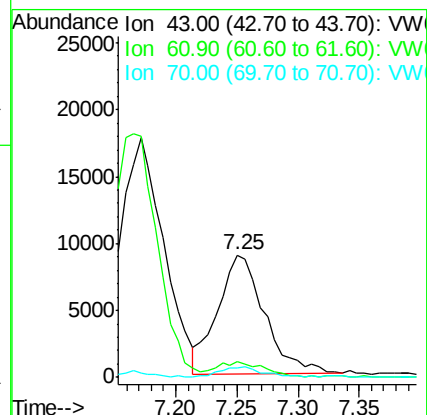
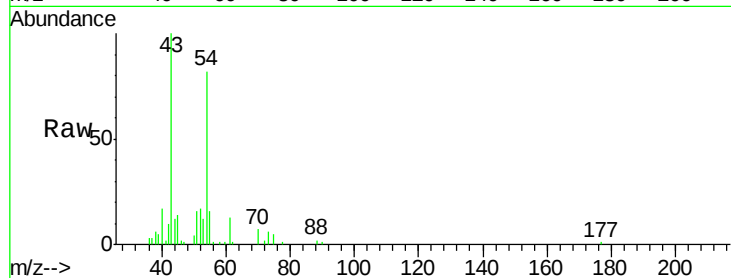
Tgt Ion: 43 Resp: 23637

Ion Ratio Lower Upper

43 100

61 12.2 9.6 14.4

70 8.7 6.5 9.7



#38

Carbon Tetrachloride

Concen: 4.87 ug/l

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

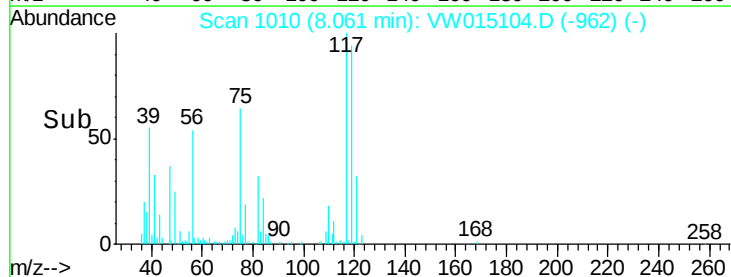
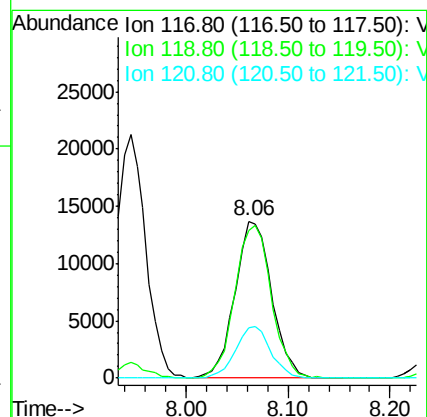
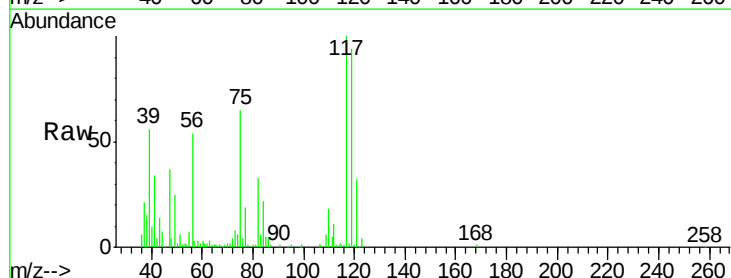
Tgt Ion: 117 Resp: 34200

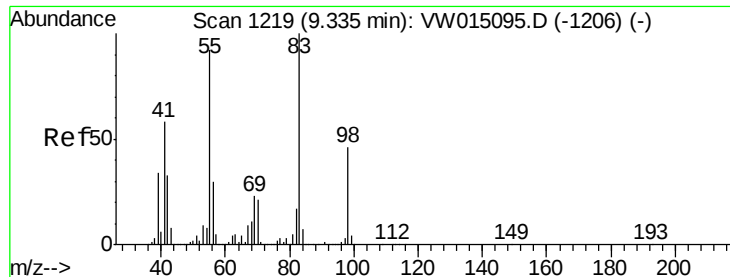
Ion Ratio Lower Upper

117 100

119 93.8 75.8 113.8

121 32.1 24.5 36.7

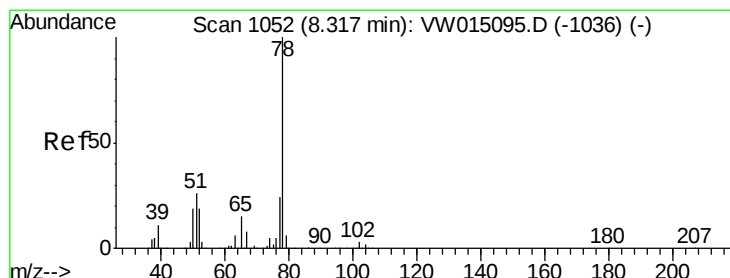
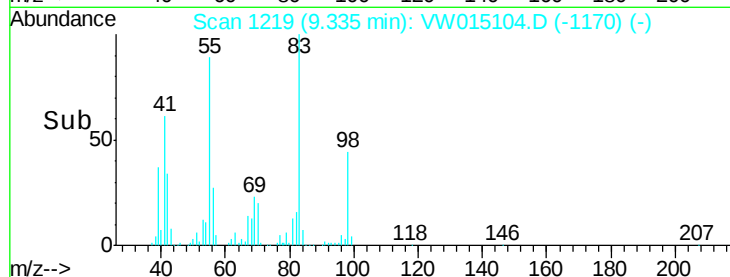
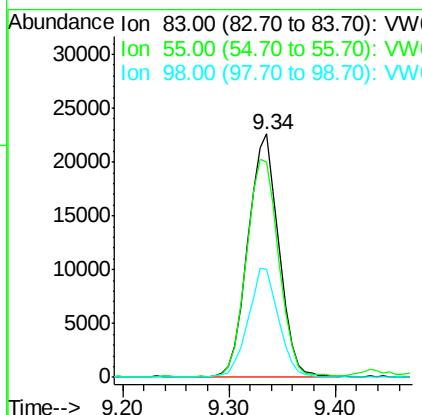
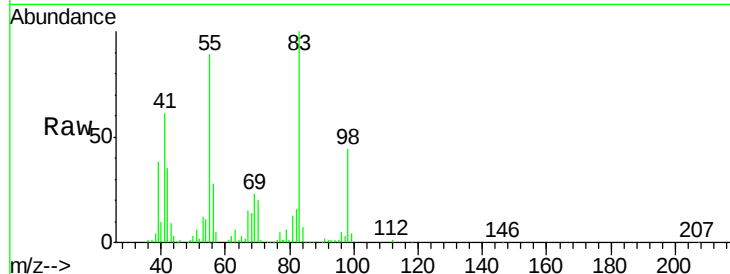




#39
Methylcyclohexane
Concen: 4.69 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

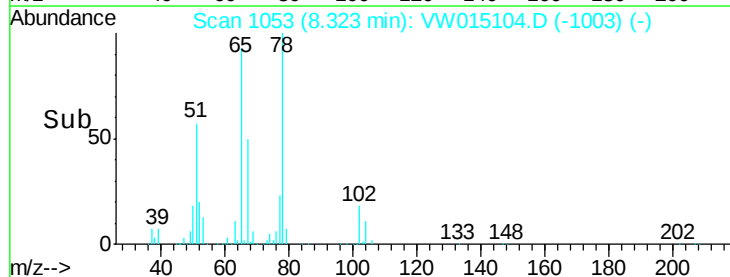
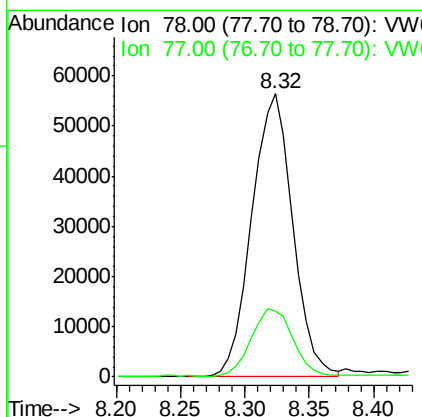
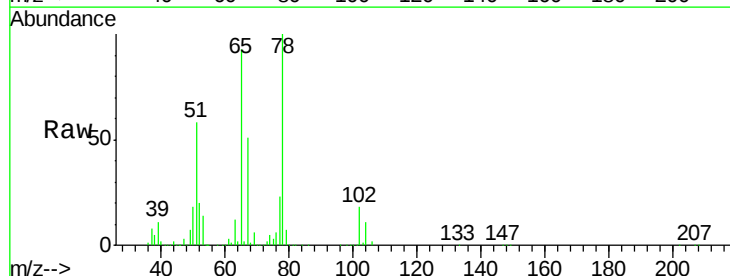
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

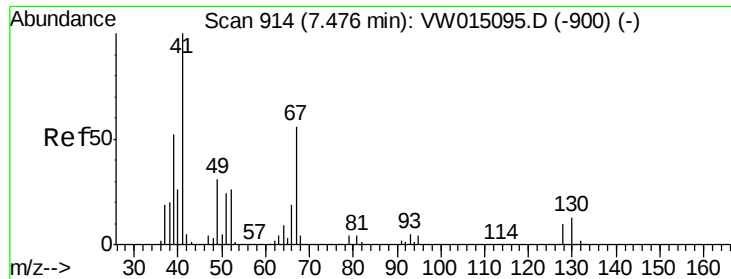
Tgt Ion: 83 Resp: 46254
Ion Ratio Lower Upper
83 100
55 88.8 73.5 110.3
98 44.1 37.2 55.8



#40
Benzene
Concen: 5.20 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion: 78 Resp: 124588
Ion Ratio Lower Upper
78 100
77 22.7 19.5 29.3

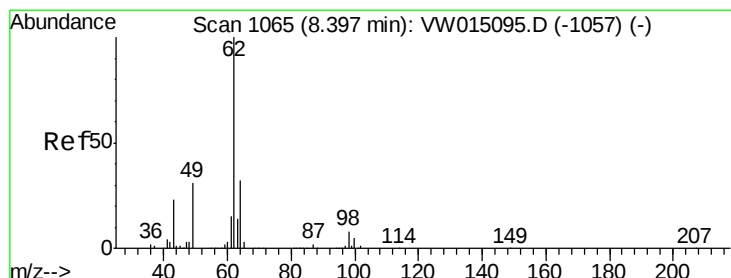
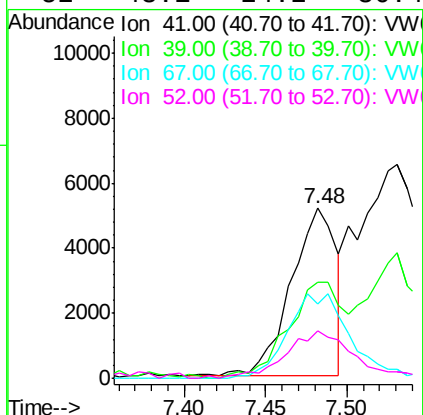
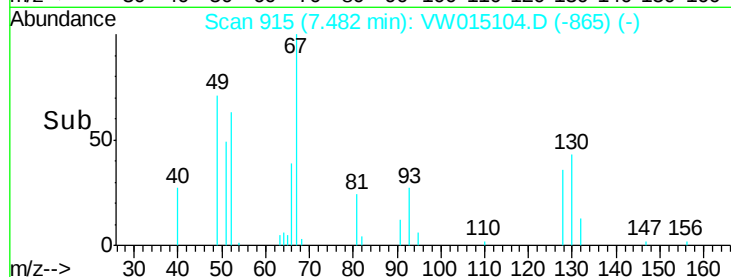
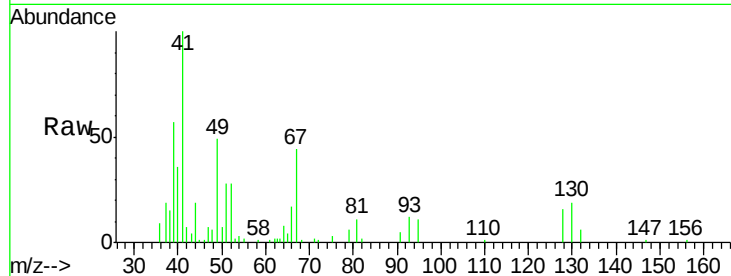




#41
Methacrylonitrile
Concen: 4.38 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

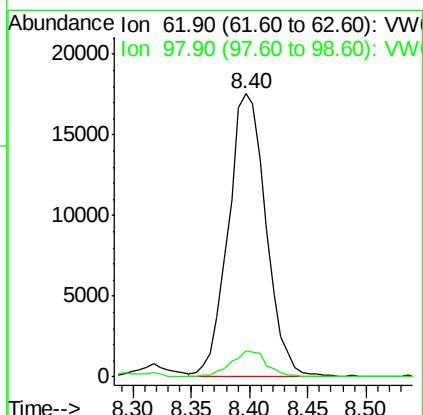
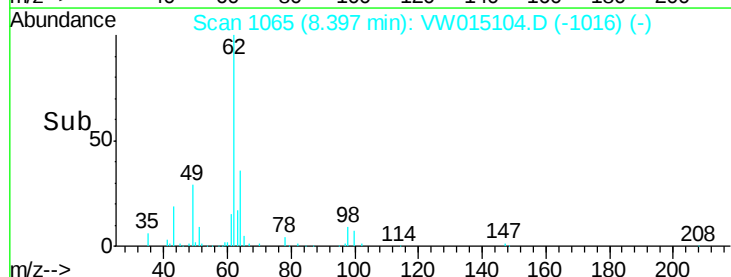
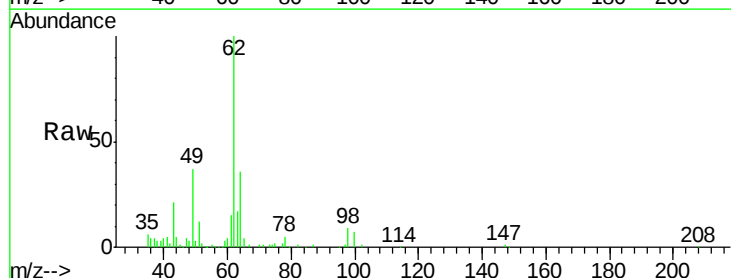
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

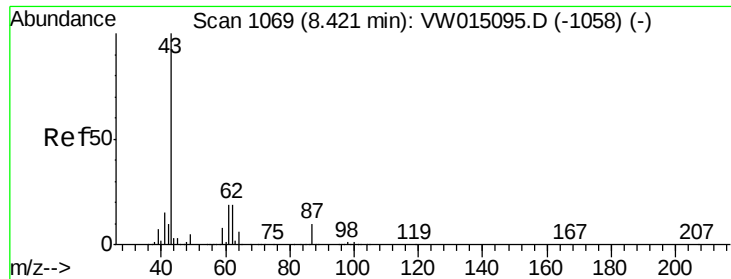
Tgt Ion: 41 Resp: 9952
Ion Ratio Lower Upper
41 100
39 69.5 49.0 73.4
67 70.0 50.4 75.6
52 43.1 24.2 36.4#



#42
1,2-Dichloroethane
Concen: 5.44 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion: 62 Resp: 39696
Ion Ratio Lower Upper
62 100
98 8.8 0.0 16.0





#43

Isopropyl Acetate

Concen: 5.38 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

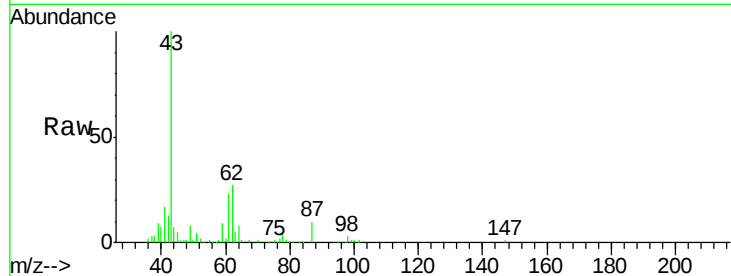
Tgt Ion: 43 Resp: 41462

Ion Ratio Lower Upper

43 100

61 26.4 21.8 32.8

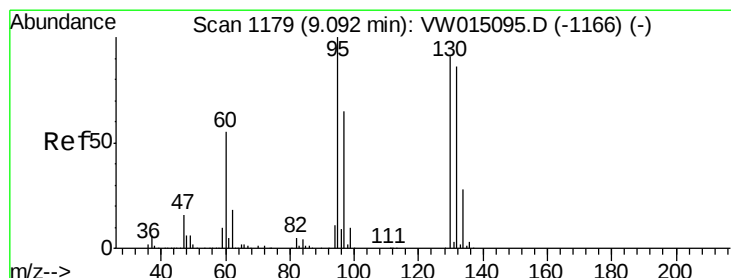
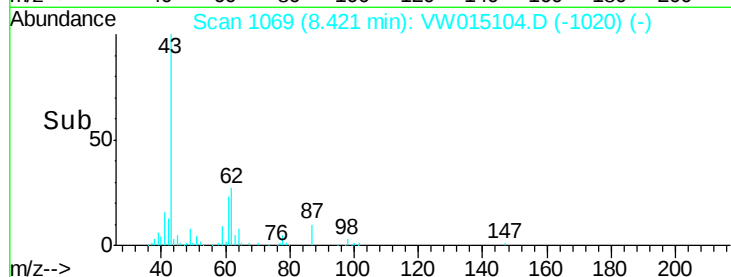
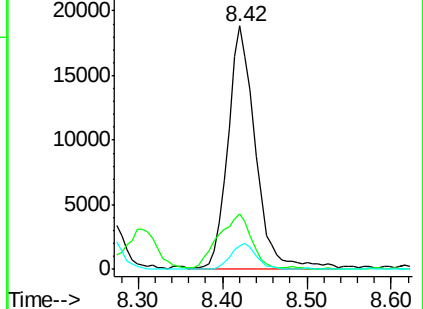
87 9.8 8.0 12.0



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: 4.89 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW015104.D

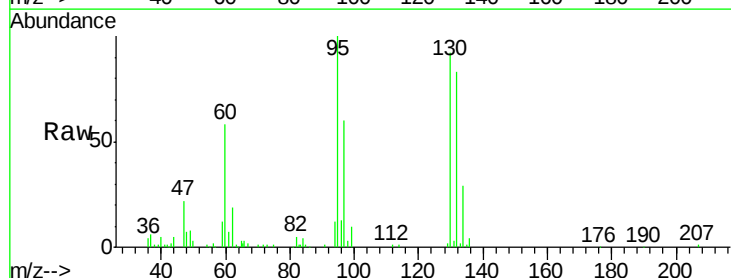
Acq: 09 Mar 2020 18:15

Tgt Ion: 130 Resp: 24964

Ion Ratio Lower Upper

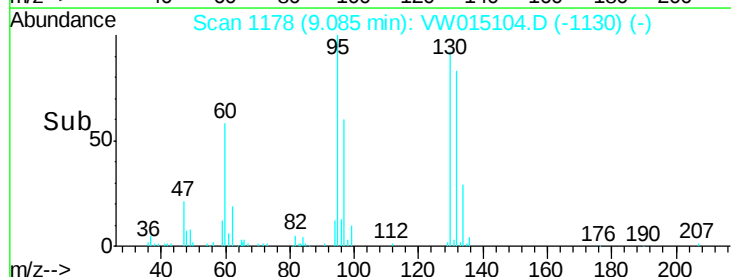
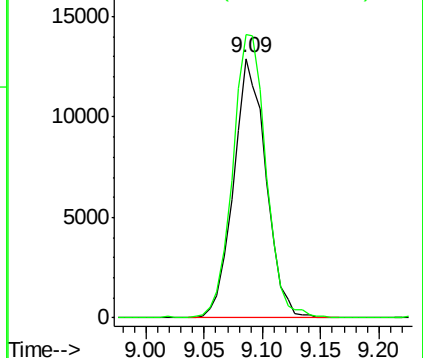
130 100

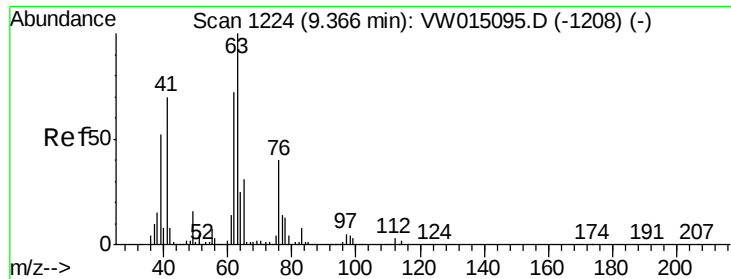
95 109.3 0.0 219.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

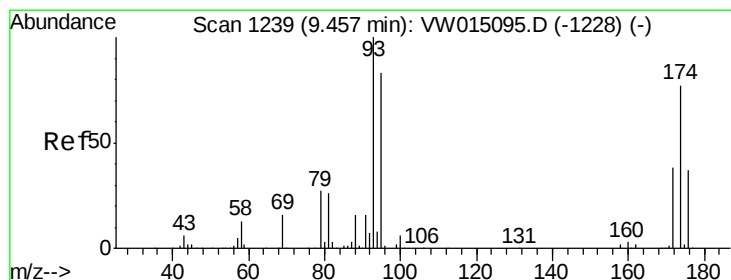
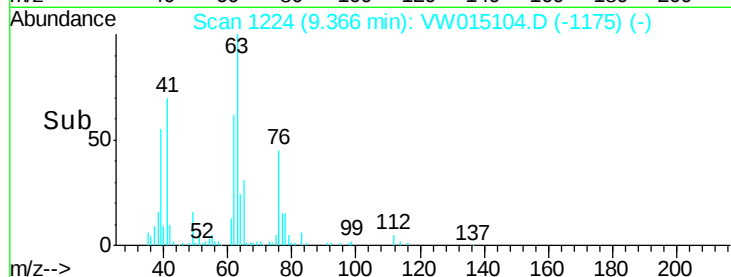
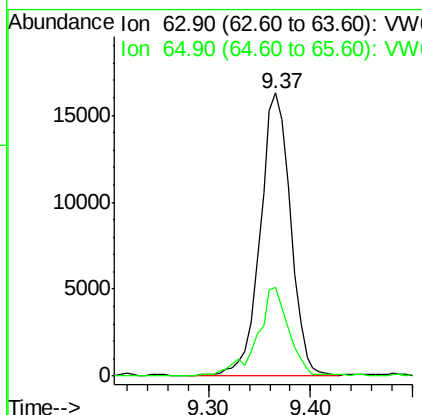
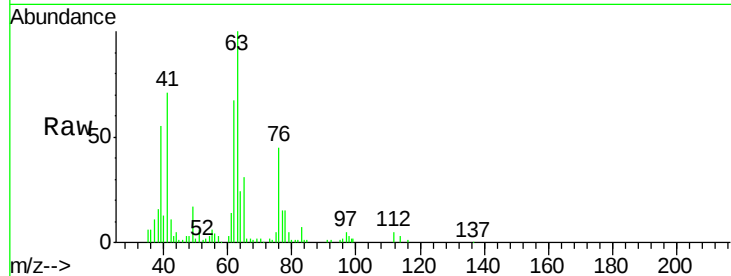




#45
 1,2-Dichloropropane
 Concen: 5.23 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

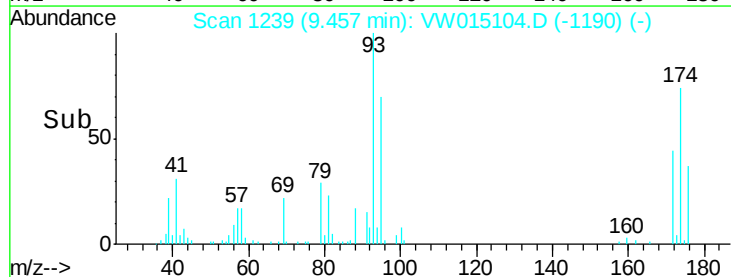
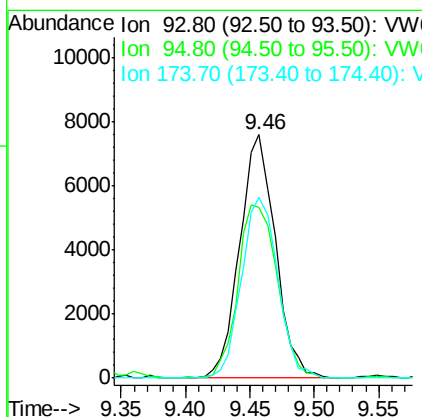
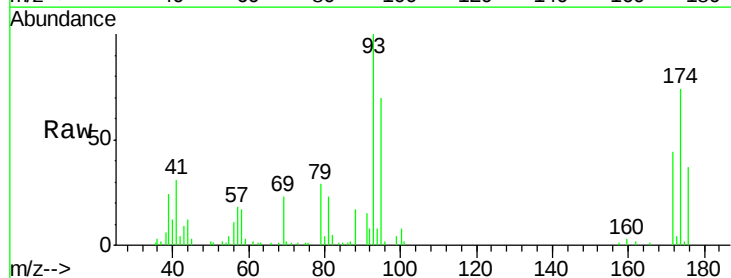
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

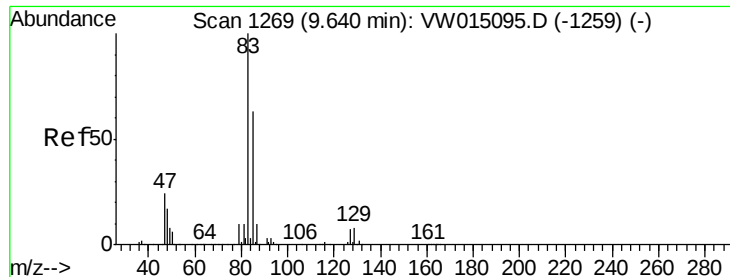
Tgt Ion: 63 Resp: 33758
 Ion Ratio Lower Upper
 63 100
 65 31.4 24.6 36.8



#46
 Dibromomethane
 Concen: 5.18 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

Tgt Ion: 93 Resp: 14528
 Ion Ratio Lower Upper
 93 100
 95 79.0 66.6 100.0
 174 75.4 60.6 91.0

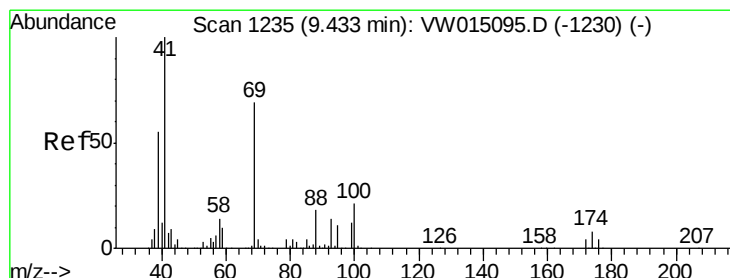
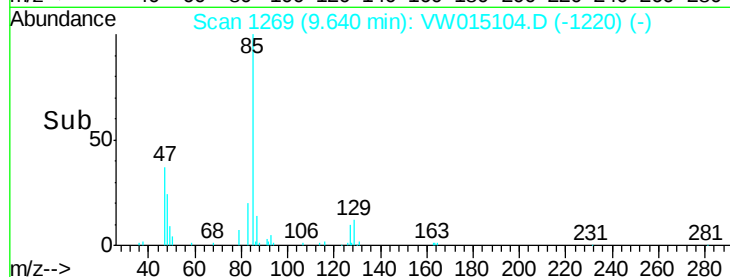
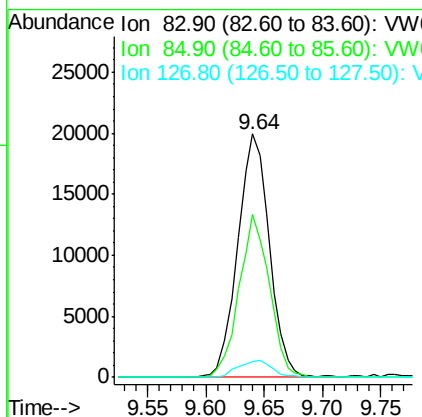
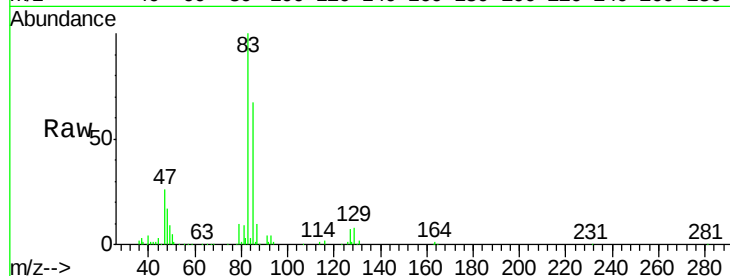




#47
Bromodichloromethane
Concen: 5.05 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

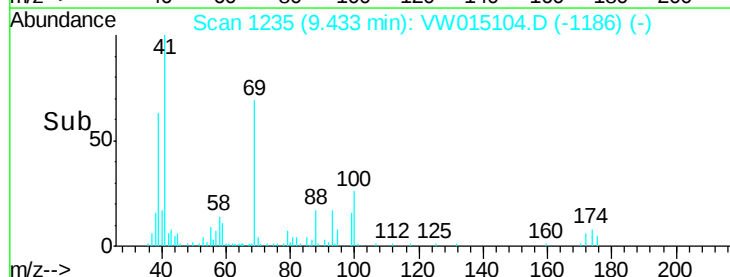
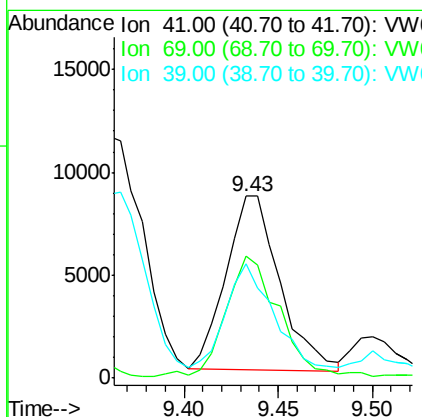
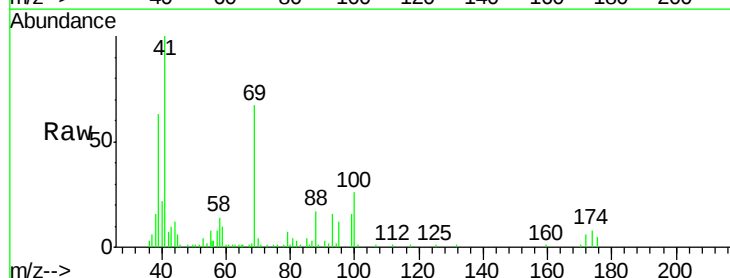
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

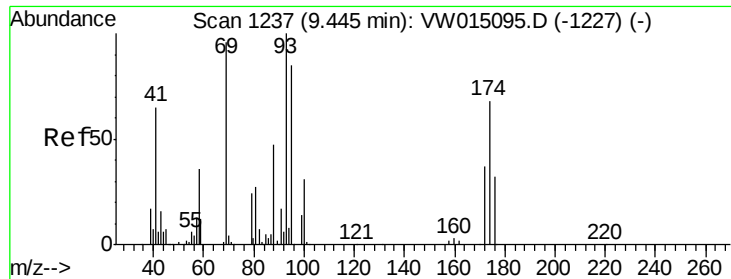
Tgt Ion: 83 Resp: 37844
Ion Ratio Lower Upper
83 100
85 66.9 50.7 76.1
127 6.7 5.5 8.3



#48
Methyl methacrylate
Concen: 4.72 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion: 41 Resp: 16784
Ion Ratio Lower Upper
41 100
69 68.7 58.7 88.1
39 54.2 45.1 67.7

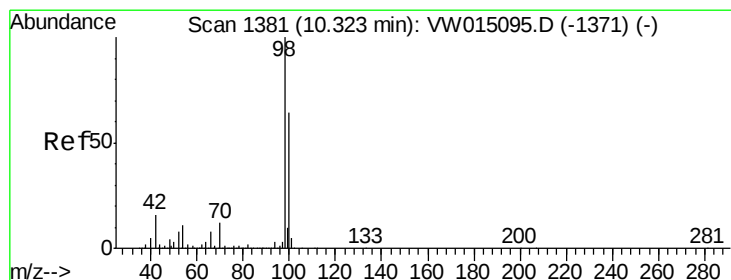
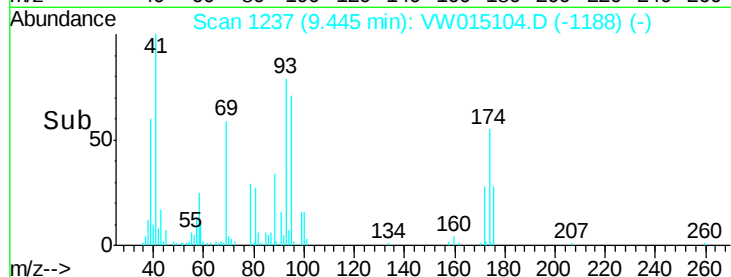
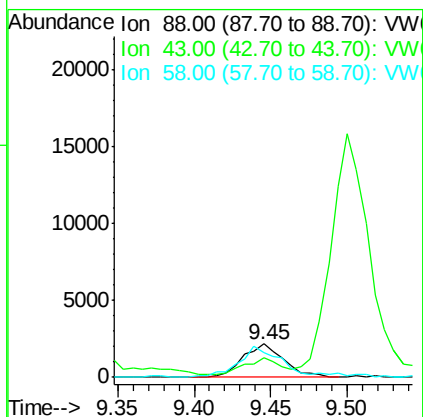
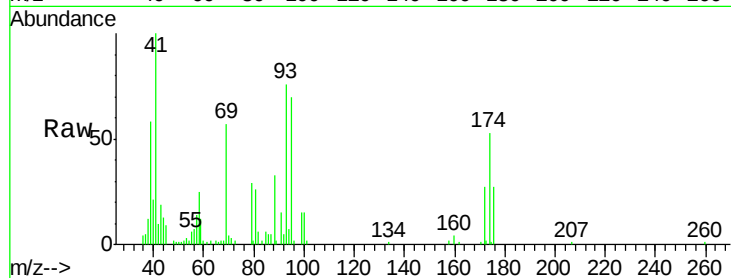




#49
1,4-Dioxane
Concen: 94.91 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

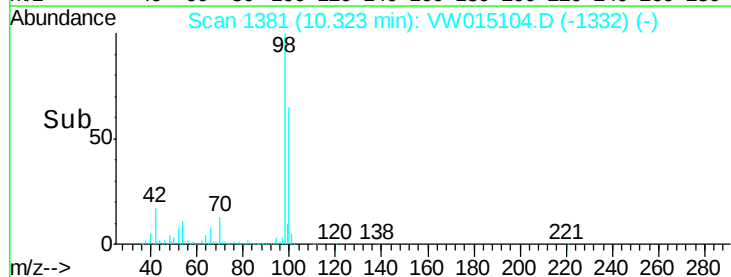
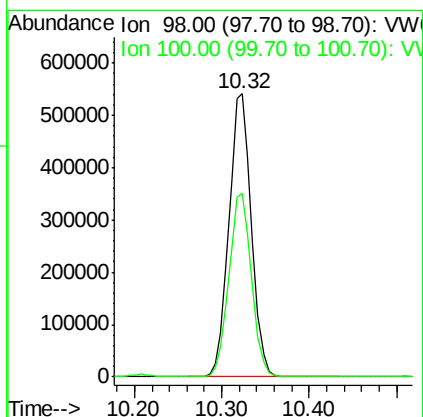
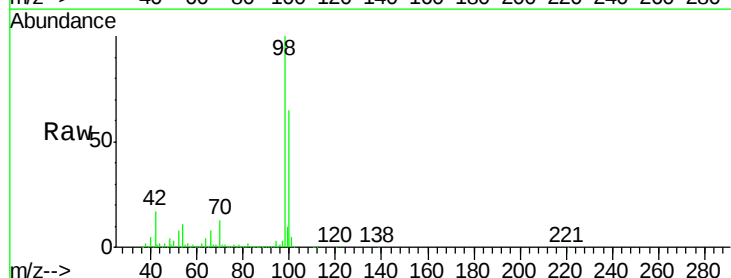
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

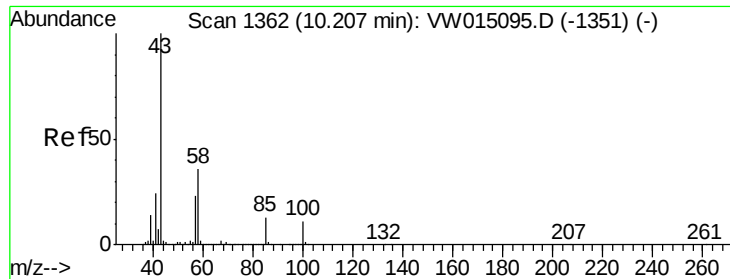
Tgt Ion: 88 Resp: 4078
Ion Ratio Lower Upper
88 100
43 44.0 35.8 53.8
58 106.7 64.0 96.0#



#50
Toluene-d8
Concen: 51.75 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion: 98 Resp: 964785
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2

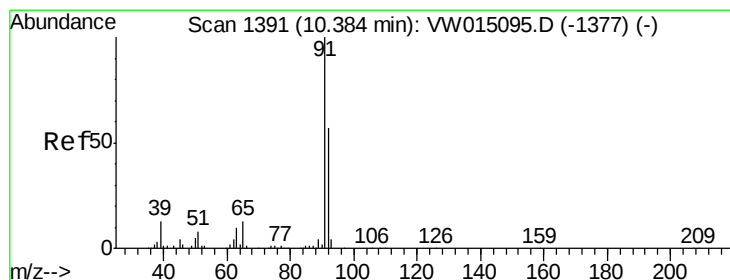
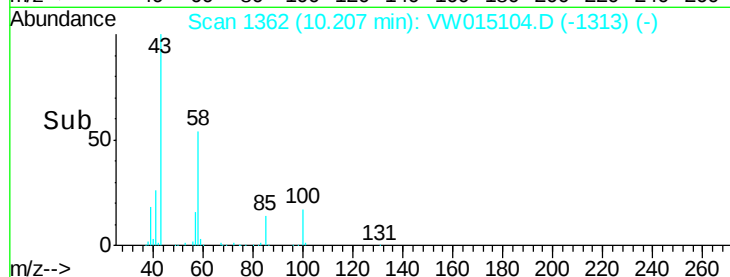
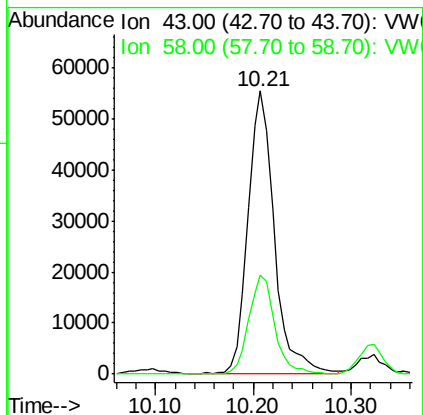
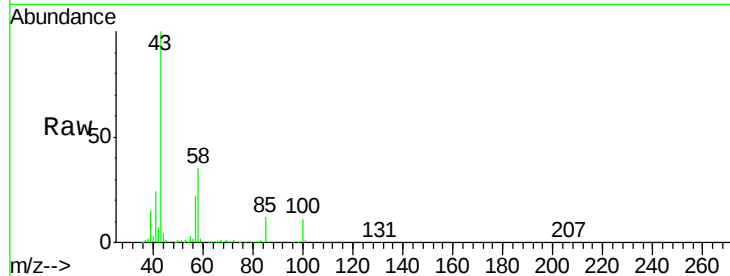




#51
4-Methyl-2-Pentanone
Concen: 24.27 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

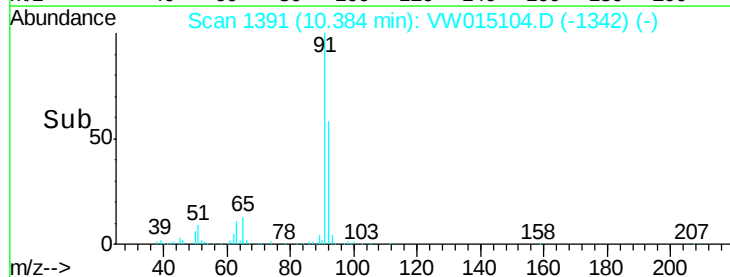
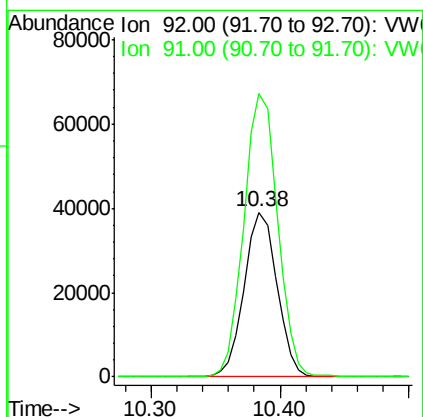
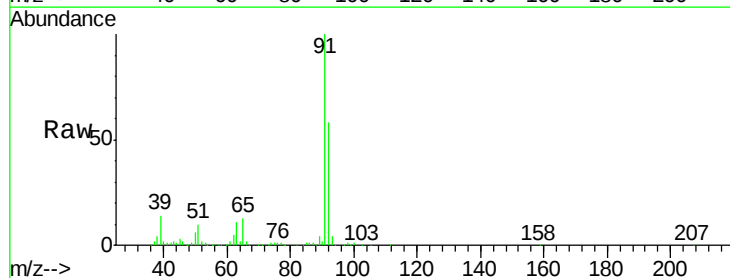
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

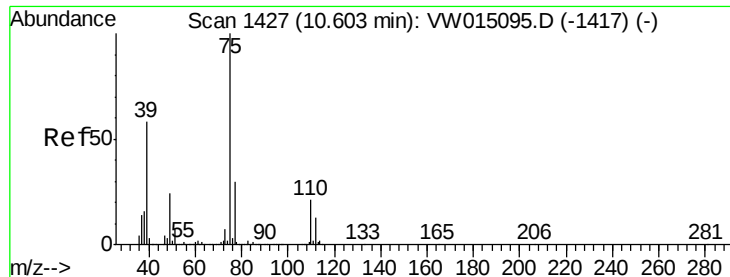
Tgt Ion: 43 Resp: 103280
Ion Ratio Lower Upper
43 100
58 34.5 28.0 42.0



#52
Toluene
Concen: 5.03 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion: 92 Resp: 69280
Ion Ratio Lower Upper
92 100
91 176.2 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 4.76 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

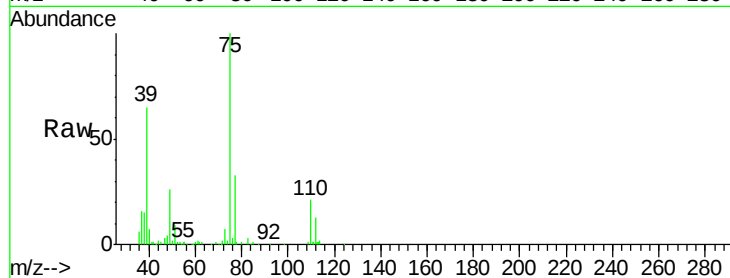
LOQ-SOIL-02-QT1-2020

Tgt Ion: 75 Resp: 35098

Ion Ratio Lower Upper

75 100

77 32.8 24.4 36.6



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

10.60

20000

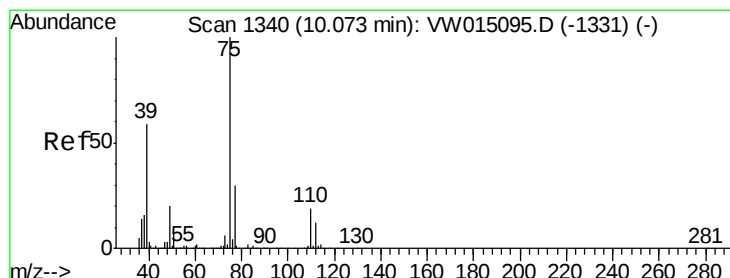
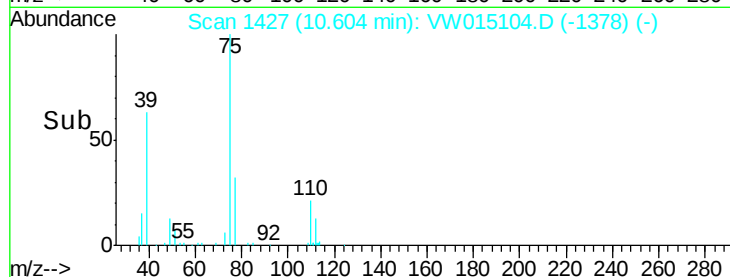
15000

10000

5000

0

Time--> 10.50 10.60 10.70



#54

cis-1,3-Dichloropropene

Concen: 4.70 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

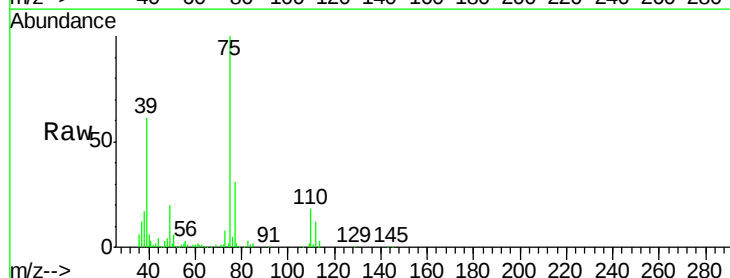
Tgt Ion: 75 Resp: 42231

Ion Ratio Lower Upper

75 100

77 31.4 24.3 36.5

39 60.0 47.0 70.6



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

10.07

30000

25000

20000

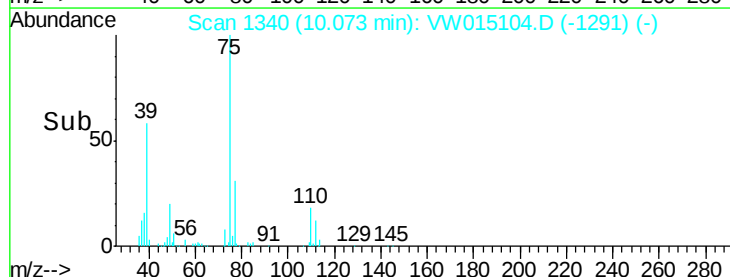
15000

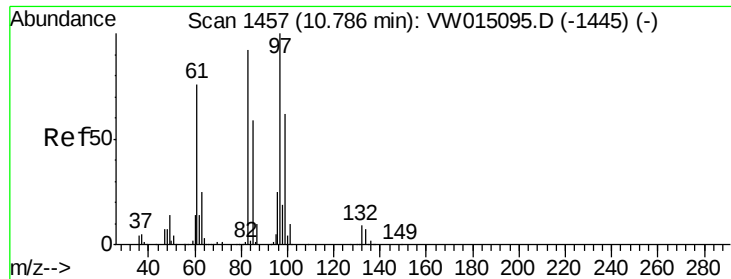
10000

5000

0

Time--> 10.00 10.10

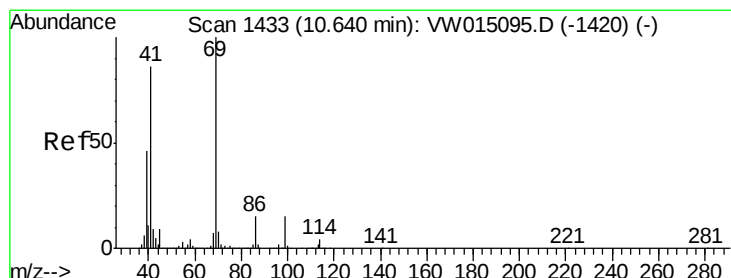
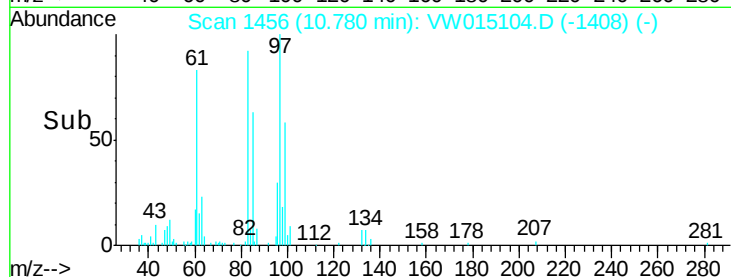
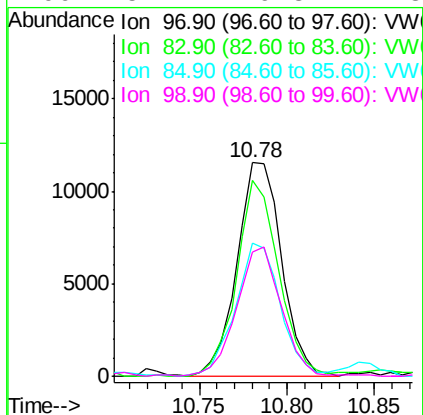
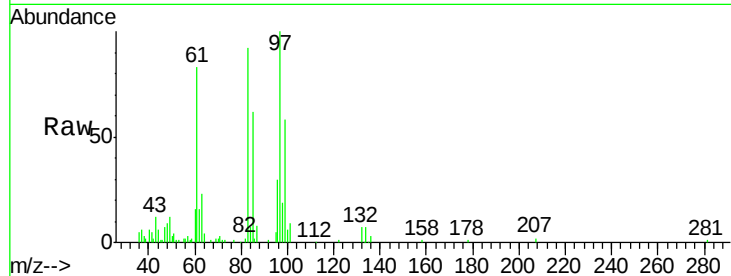




#55
 1,1,2-Trichloroethane
 Concen: 5.34 ug/l
 RT: 10.78 min Scan# 1456
 Delta R.T. -0.01 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

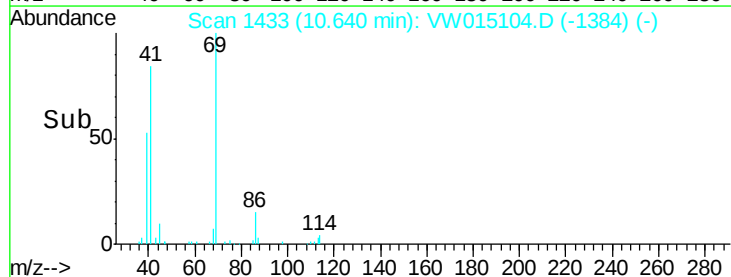
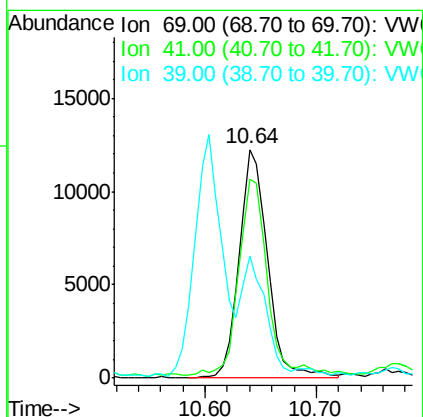
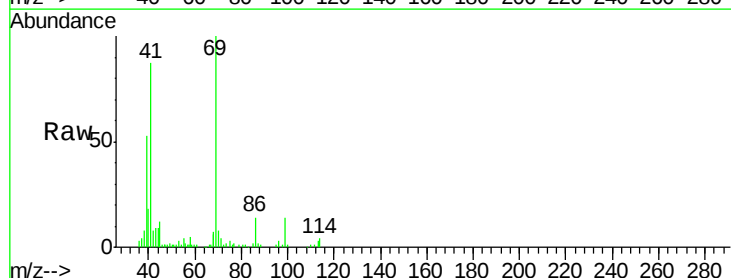
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

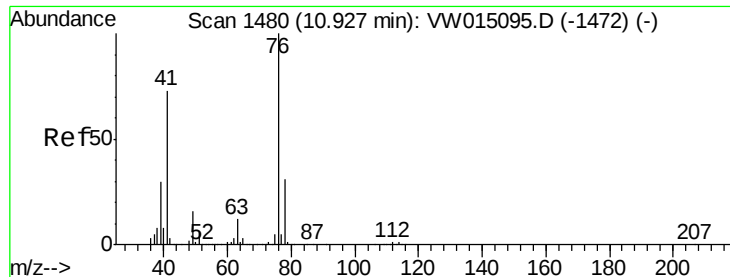
Tgt Ion:	97	Resp:	20531
Ion	Ratio	Lower	Upper
97	100		
83	91.5	74.0	111.0
85	61.7	46.9	70.3
99	57.4	49.8	74.8



#56
 Ethyl methacrylate
 Concen: 4.40 ug/l
 RT: 10.64 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

Tgt Ion:	69	Resp:	21834
Ion	Ratio	Lower	Upper
69	100		
41	87.6	65.8	98.6
39	39.3	31.2	46.8

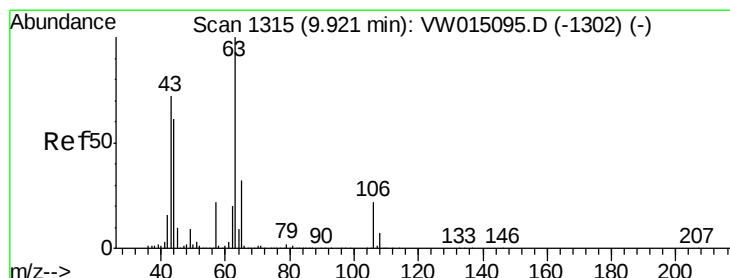
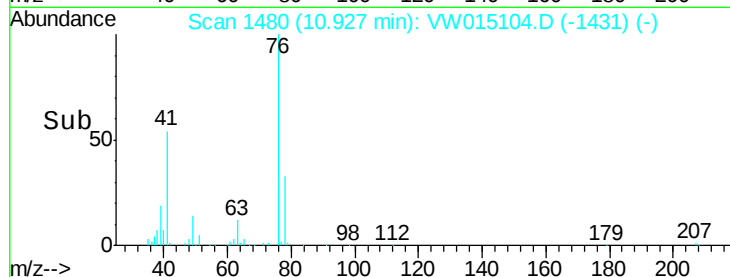
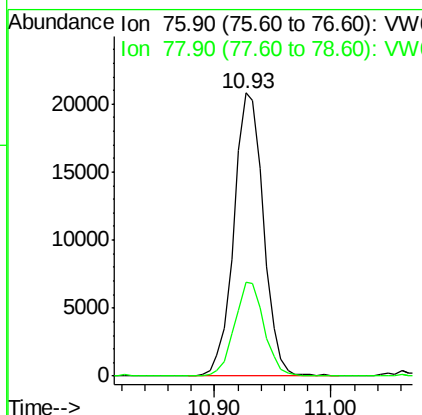
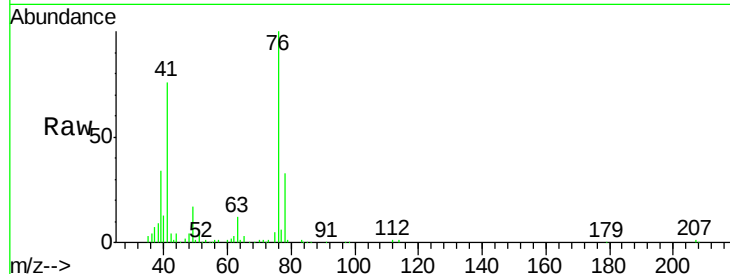




#57
 1,3-Dichloropropane
 Concen: 5.03 ug/l
 RT: 10.93 min Scan# 1480
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

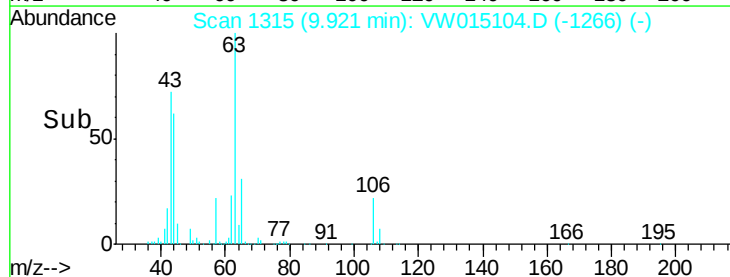
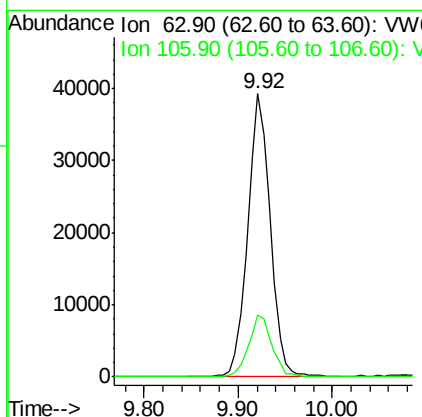
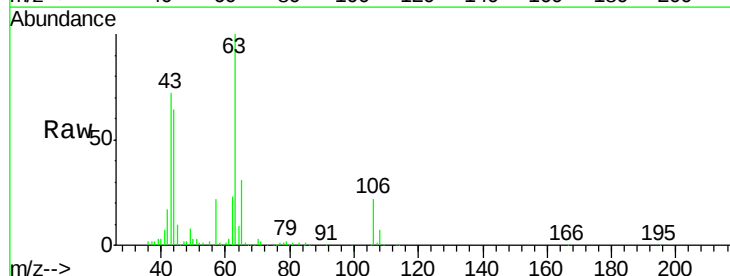
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

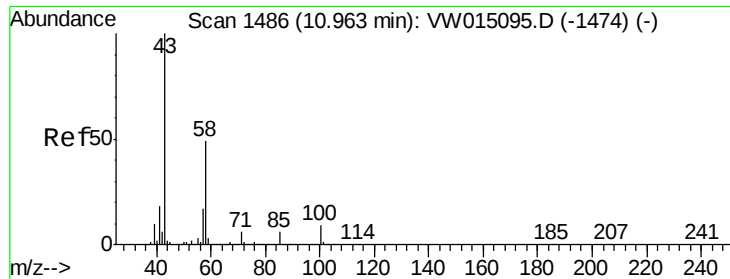
Tgt Ion: 76 Resp: 36838
 Ion Ratio Lower Upper
 76 100
 78 33.4 25.3 37.9



#58
 2-Chloroethyl Vinyl ether
 Concen: 22.69 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

Tgt Ion: 63 Resp: 66047
 Ion Ratio Lower Upper
 63 100
 106 22.4 18.0 27.0





#59

2-Hexanone

Concen: 23.03 ug/l

RT: 10.96 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

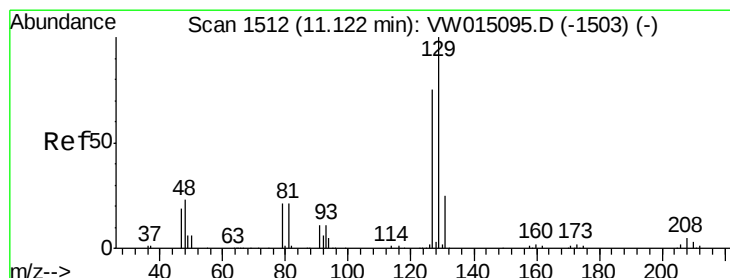
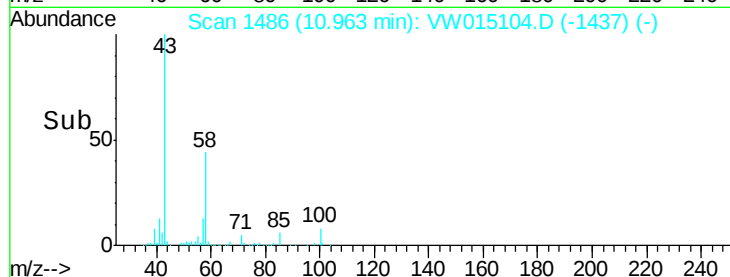
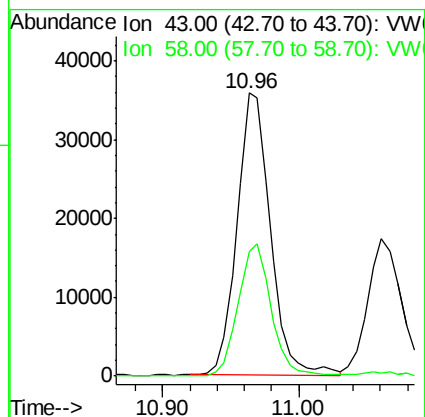
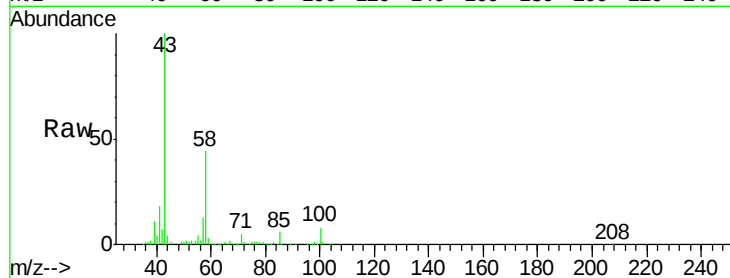
LOQ-SOIL-02-QT1-2020

Tgt Ion: 43 Resp: 61212

Ion Ratio Lower Upper

43 100

58 46.5 24.6 73.8



#60

Dibromochloromethane

Concen: 4.77 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.01 min

Lab File: VW015104.D

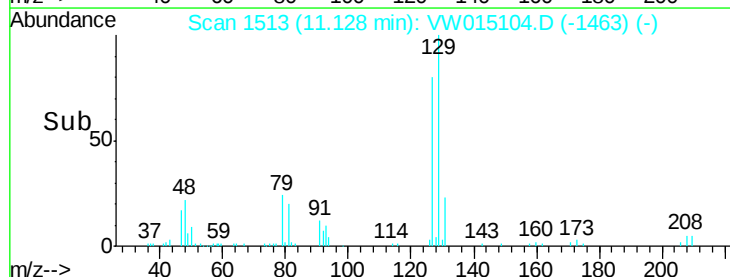
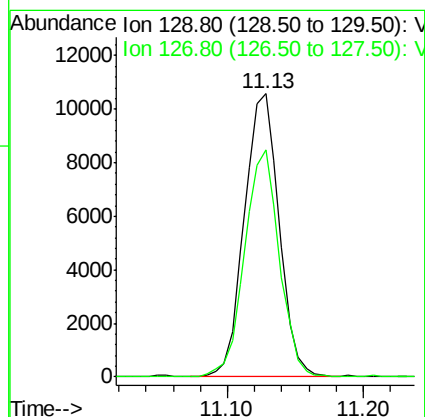
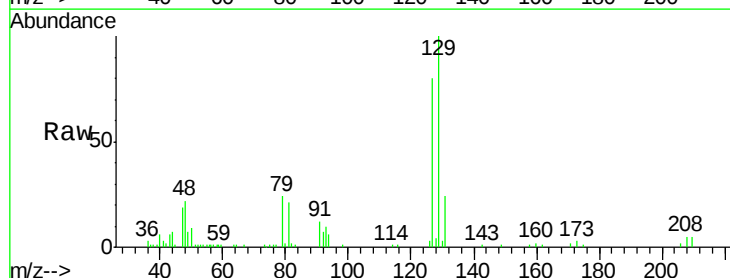
Acq: 09 Mar 2020 18:15

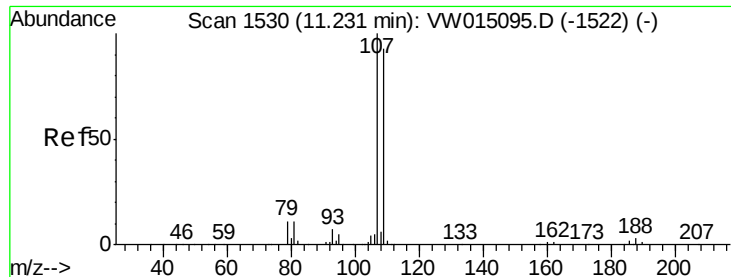
Tgt Ion: 129 Resp: 18963

Ion Ratio Lower Upper

129 100

127 79.8 38.7 116.1

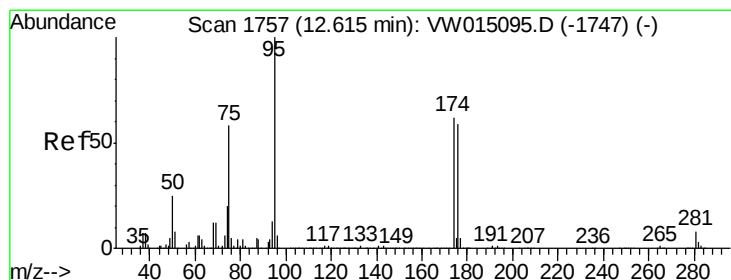
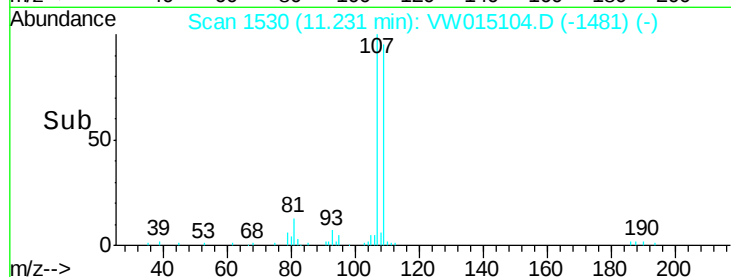
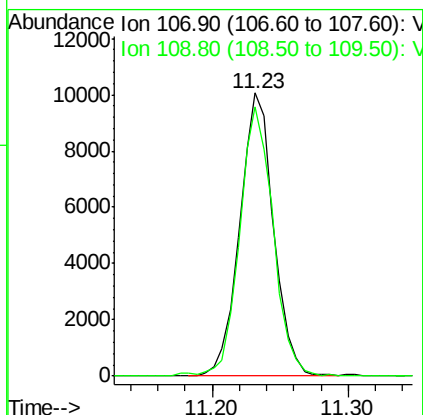
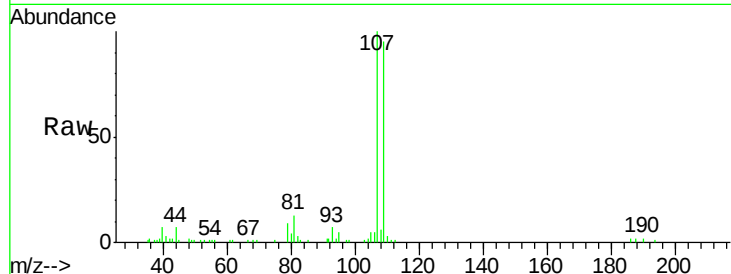




#61
1,2-Dibromoethane
Concen: 5.14 ug/l
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

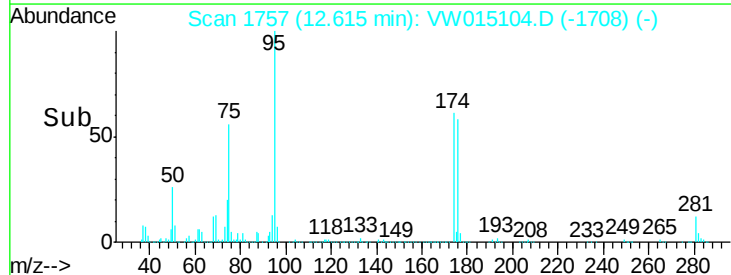
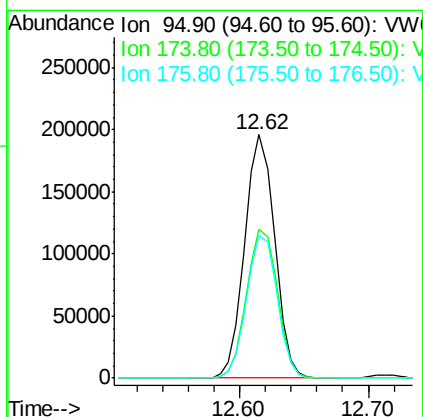
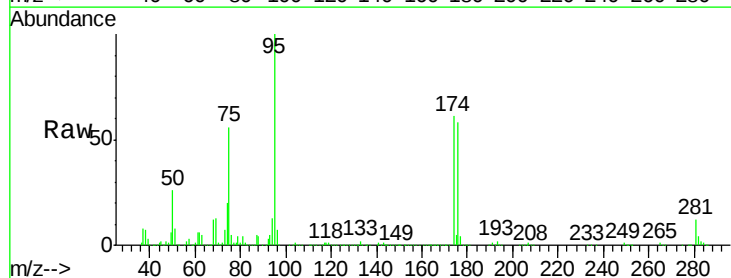
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

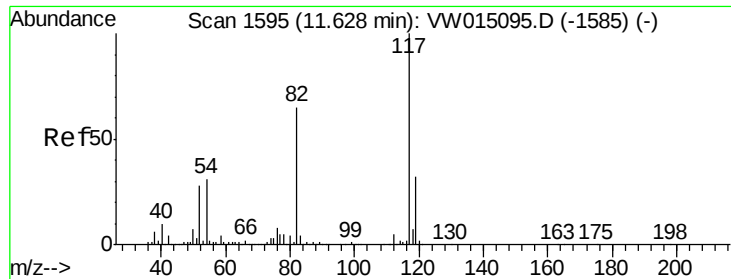
Tgt Ion: 107 Resp: 17508
Ion Ratio Lower Upper
107 100
109 94.3 75.3 112.9



#62
4-Bromofluorobenzene
Concen: 50.99 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion: 95 Resp: 315783
Ion Ratio Lower Upper
95 100
174 63.1 0.0 126.8
176 59.9 0.0 121.6

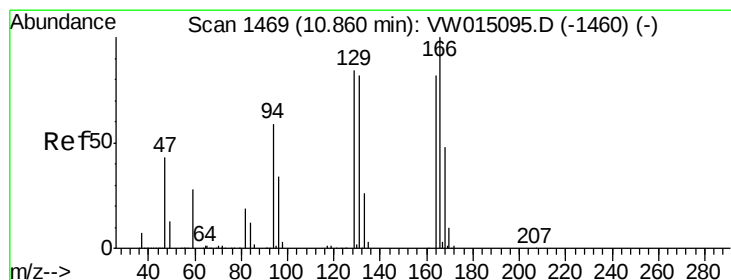
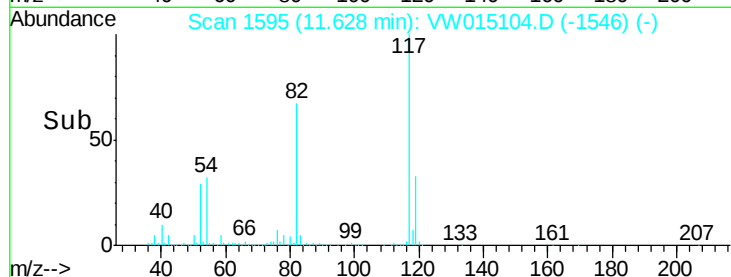
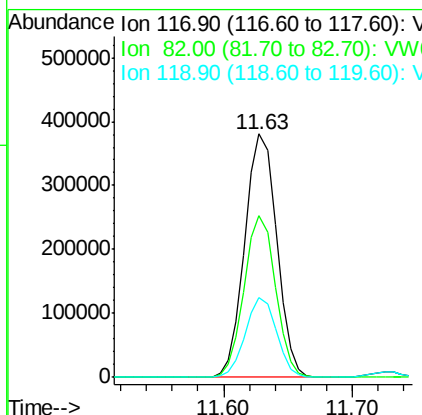
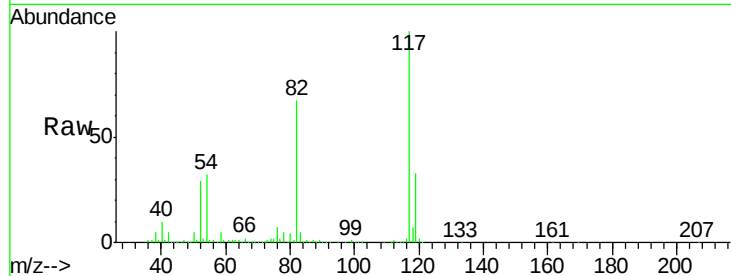




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

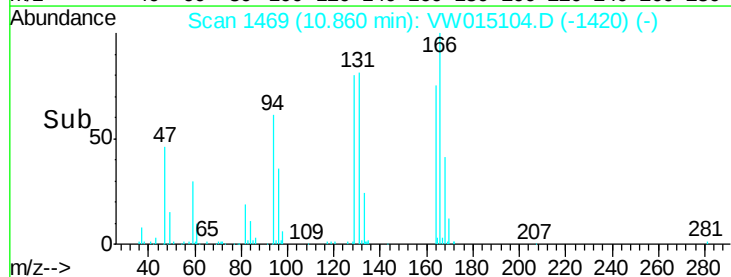
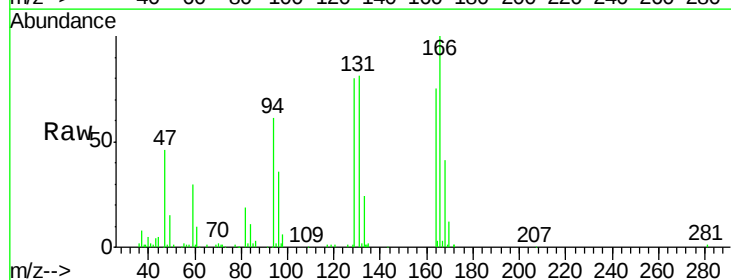
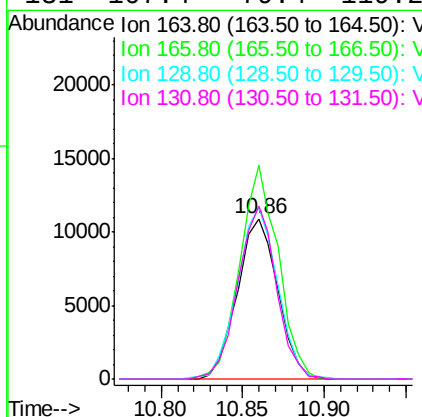
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

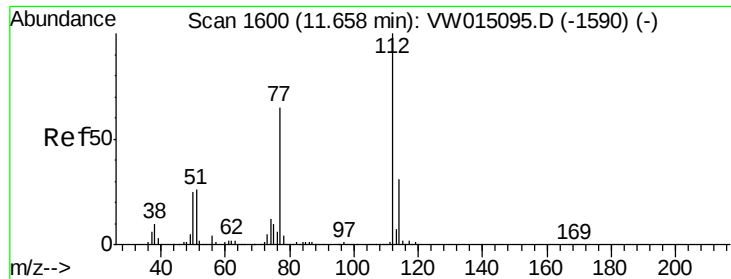
Tgt Ion:117 Resp: 654357
Ion Ratio Lower Upper
117 100
82 66.6 52.2 78.2
119 32.9 25.4 38.0



#64
Tetrachloroethene
Concen: 4.97 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion:164 Resp: 18783
Ion Ratio Lower Upper
164 100
166 133.2 97.0 145.6
129 107.1 81.2 121.8
131 107.4 79.4 119.2





#65

Chlorobenzene

Concen: 5.10 ug/l

RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

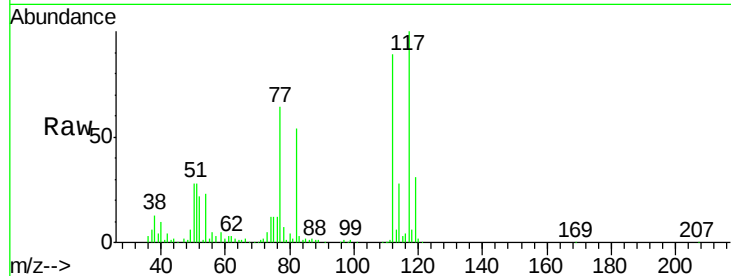
LOQ-SOIL-02-QT1-2020

Tgt Ion:112 Resp: 67034

Ion Ratio Lower Upper

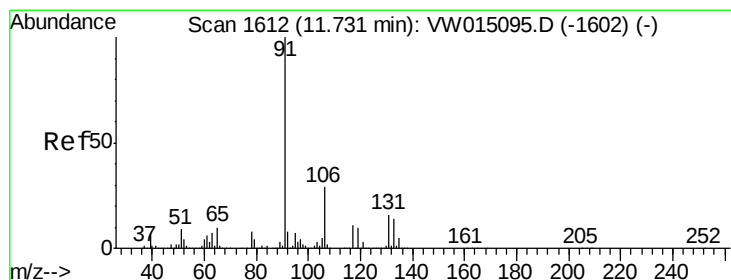
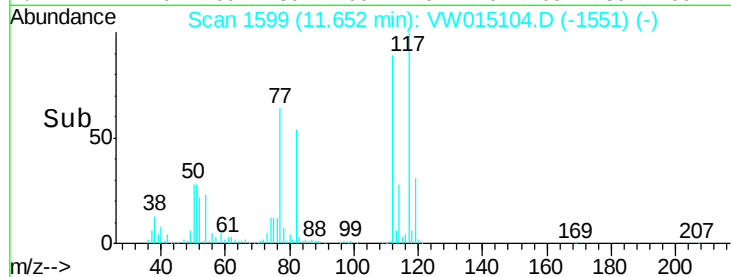
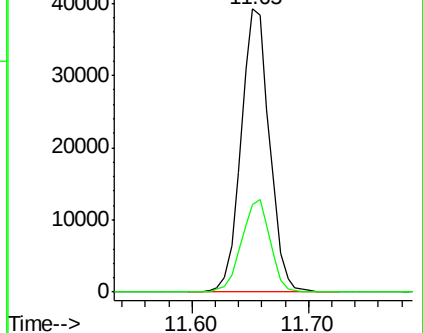
112 100

114 31.1 25.0 37.6



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: 4.95 ug/l

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

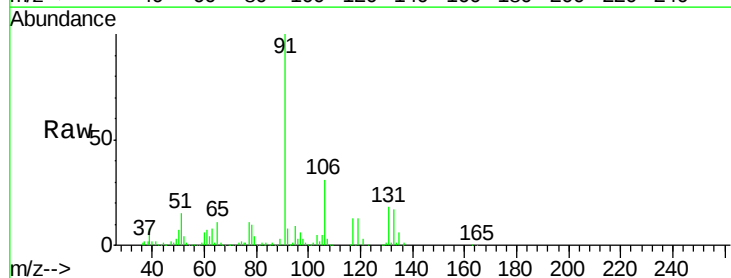
Tgt Ion:131 Resp: 21650

Ion Ratio Lower Upper

131 100

133 95.4 47.3 141.8

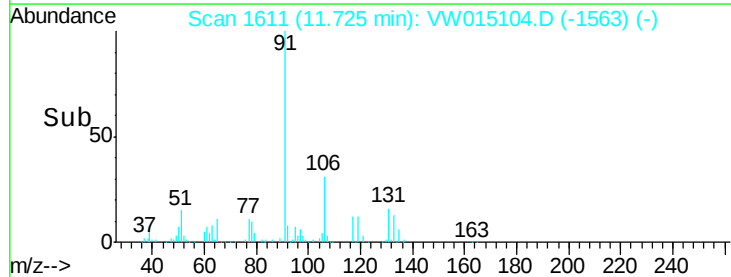
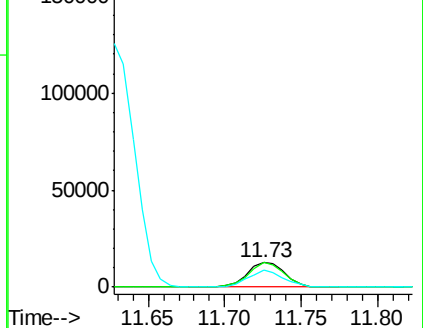
119 65.6 34.0 101.8

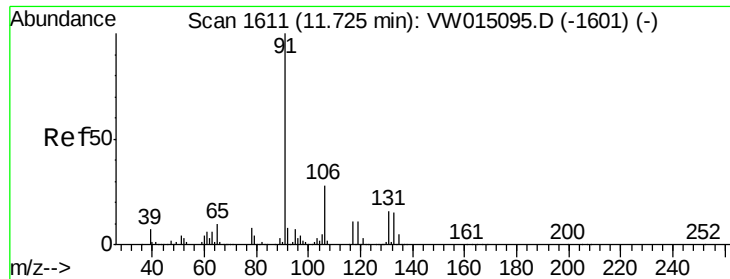


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

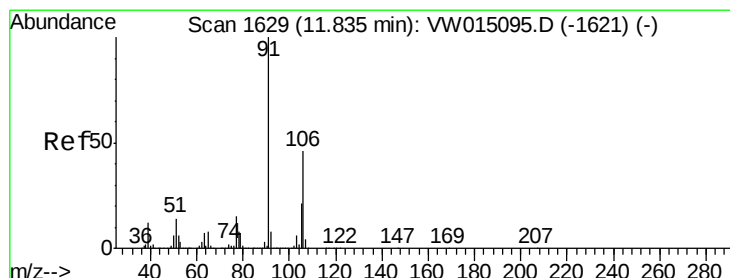
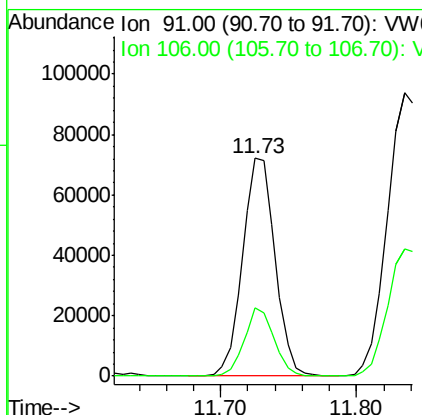
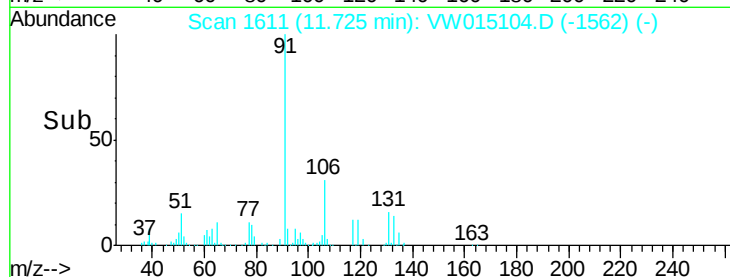
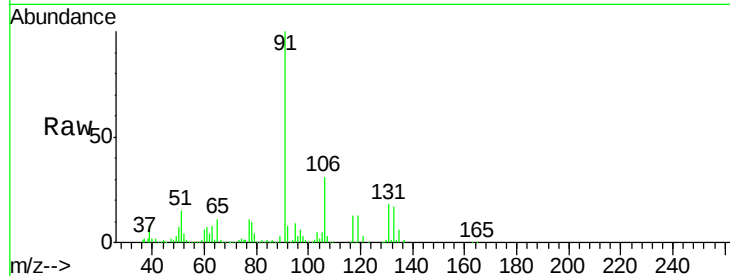




#67
Ethyl Benzene
Concen: 4.73 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

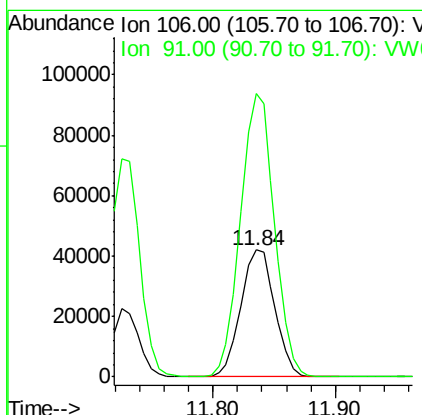
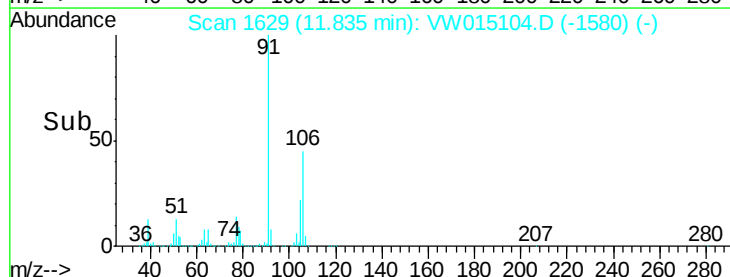
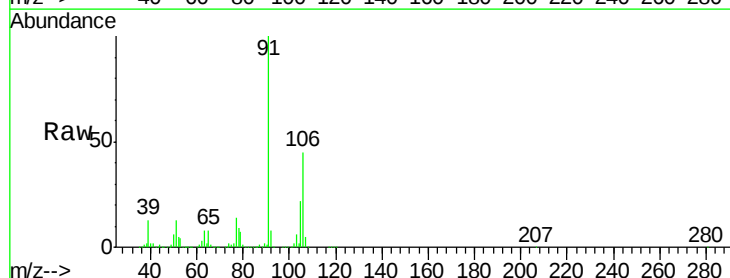
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

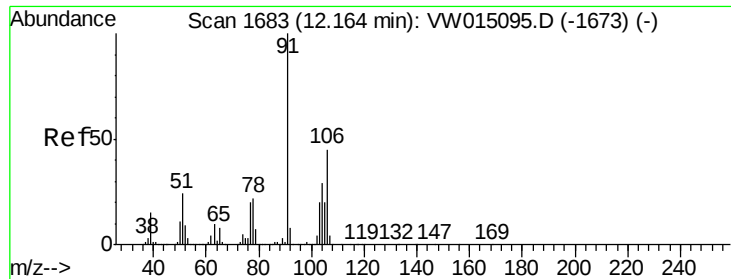
Tgt Ion: 91 Resp: 120888
Ion Ratio Lower Upper
91 100
106 31.1 22.8 34.2



#68
m/p-Xylenes
Concen: 9.01 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion: 106 Resp: 81419
Ion Ratio Lower Upper
106 100
91 221.0 172.3 258.5

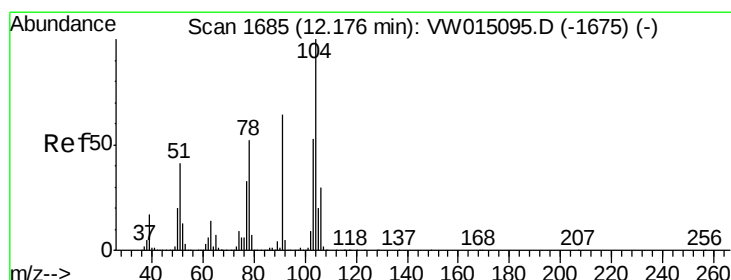
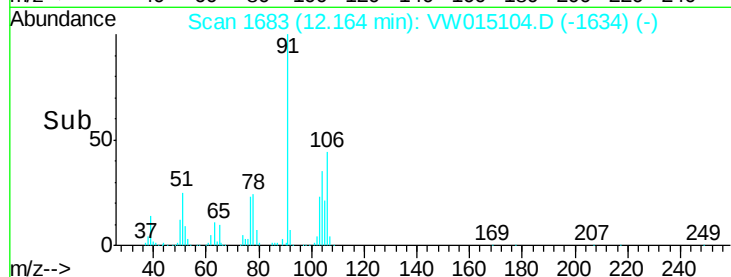
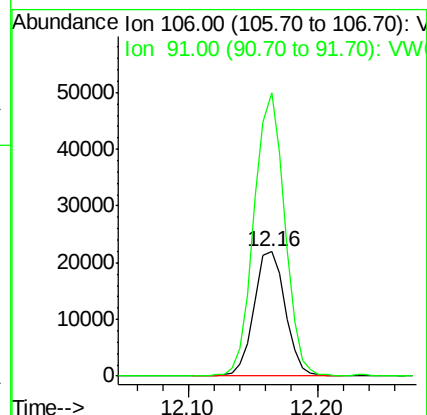
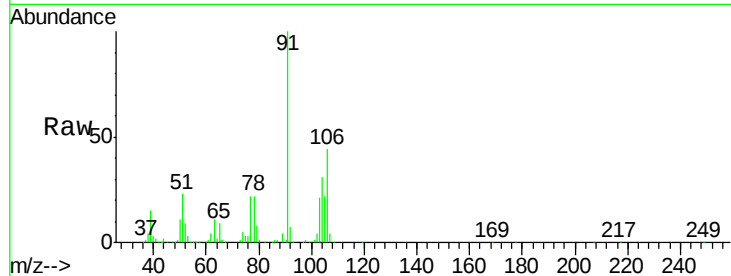




#69
o-Xylene
Concen: 4.50 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

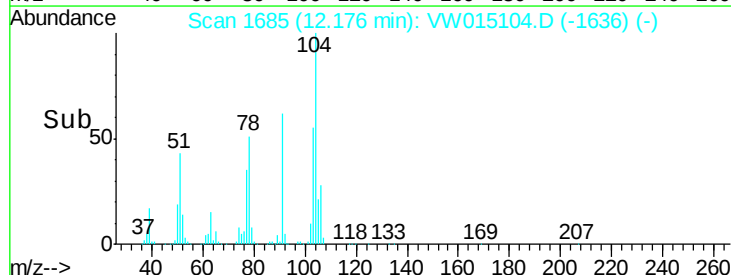
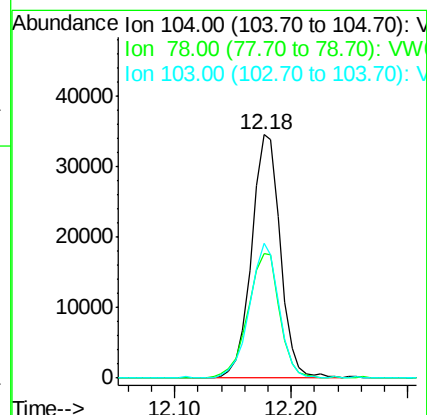
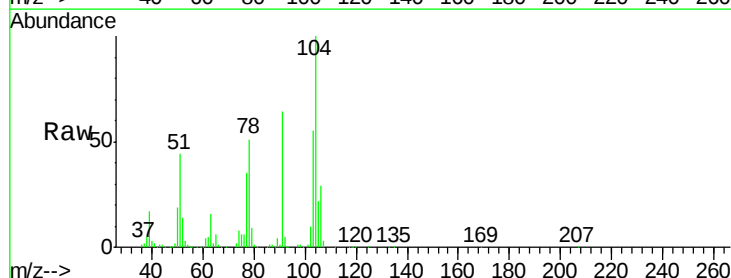
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2020

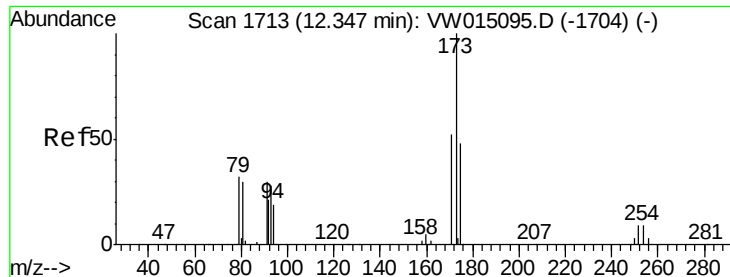
Tgt Ion:106 Resp: 36593
Ion Ratio Lower Upper
106 100
91 222.4 112.6 337.8



#70
Styrene
Concen: 4.29 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion:104 Resp: 59829
Ion Ratio Lower Upper
104 100
78 56.3 44.7 67.1
103 56.2 44.7 67.1





#71

Bromoform

Concen: 4.79 ug/l

RT: 12.34 min Scan# 1712

Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

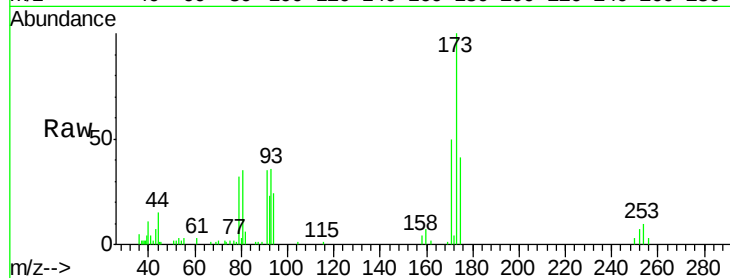
Tgt Ion:173 Resp: 9293

Ion Ratio Lower Upper

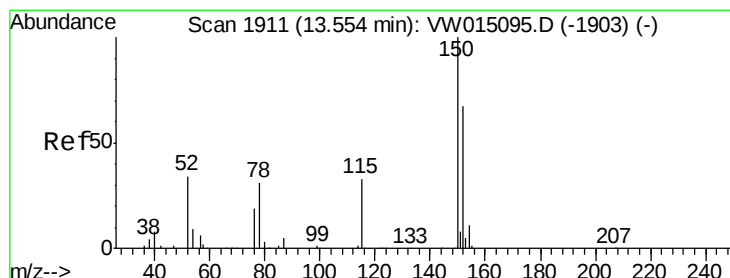
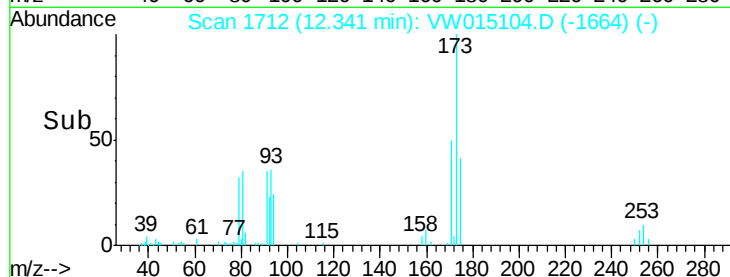
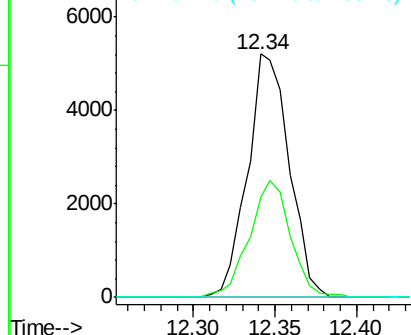
173 100

175 47.6 23.8 71.4

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

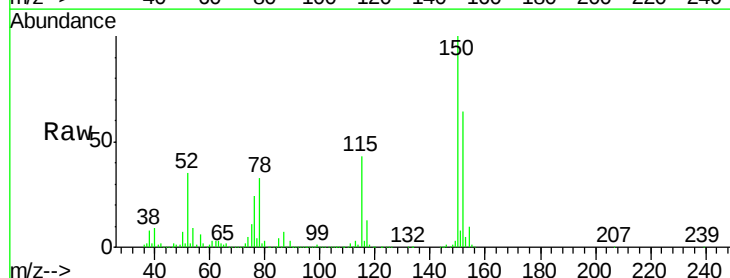
Tgt Ion:152 Resp: 290375

Ion Ratio Lower Upper

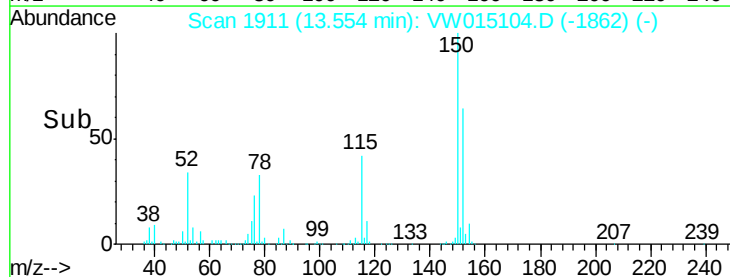
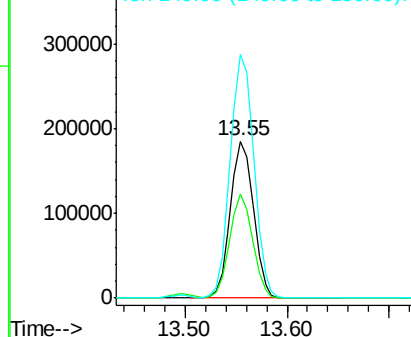
152 100

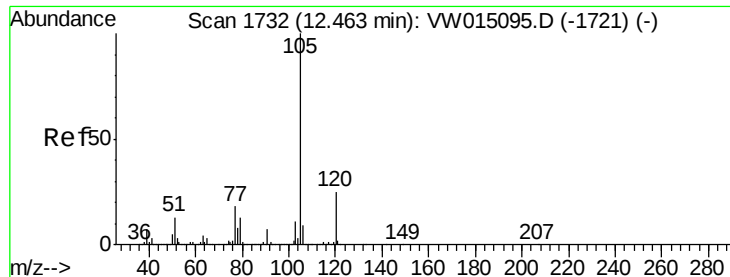
115 65.5 33.3 99.9

150 159.1 0.0 351.2



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: 4.49 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

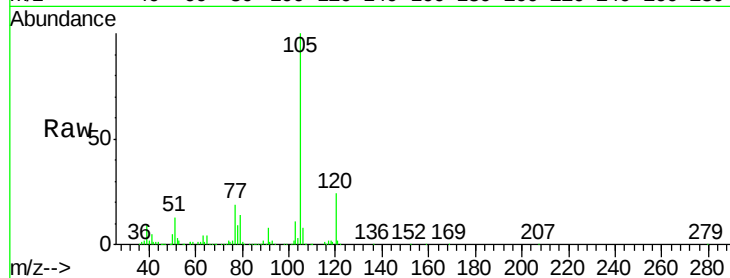
LOQ-SOIL-02-QT1-2020

Tgt Ion:105 Resp: 99655

Ion Ratio Lower Upper

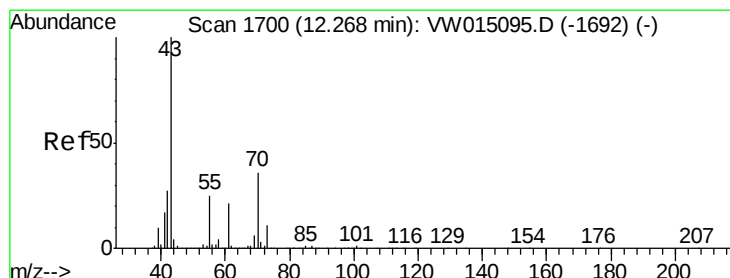
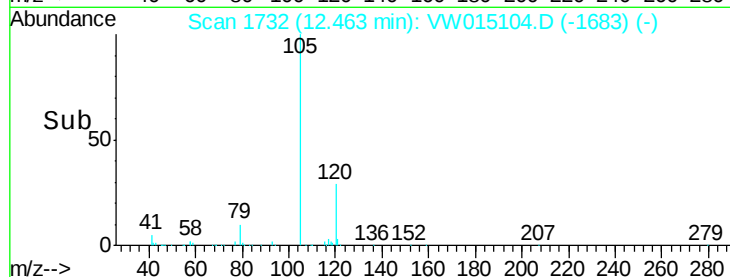
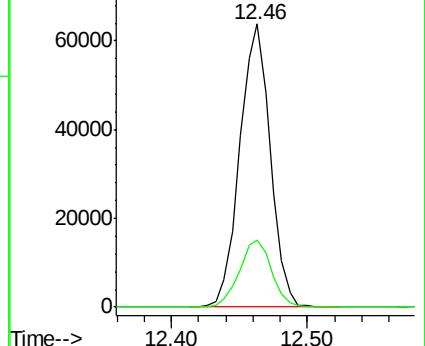
105 100

120 24.9 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.50 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Tgt Ion: 43 Resp: 29469

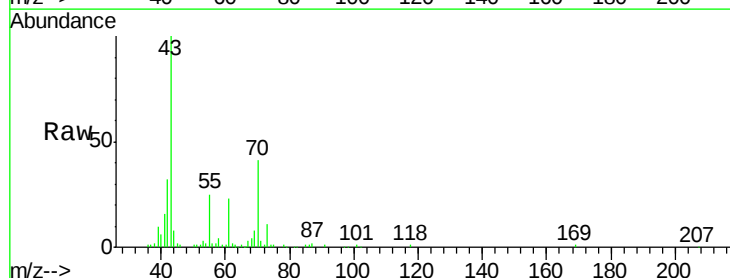
Ion Ratio Lower Upper

43 100

70 38.2 29.4 44.2

55 28.2 20.3 30.5

61 21.8 17.1 25.7

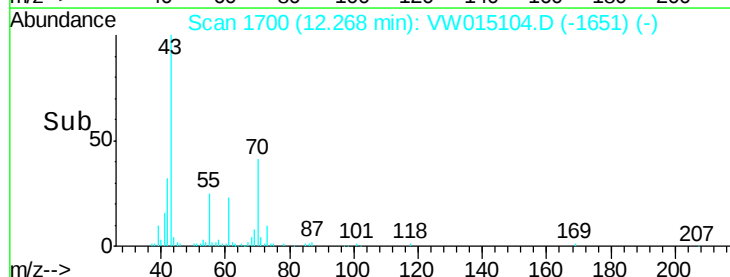
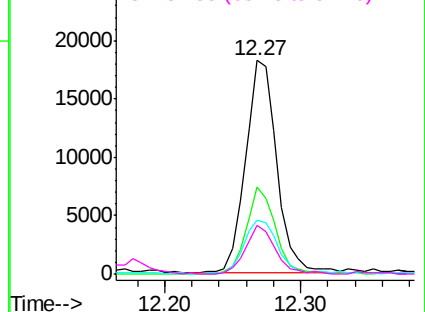


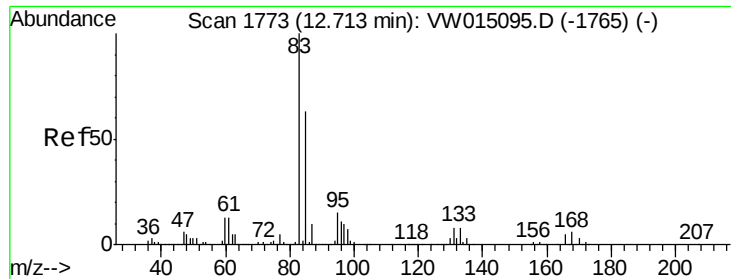
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 5.57 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

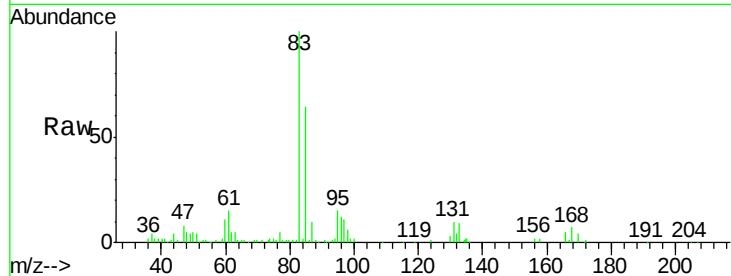
Tgt Ion: 83 Resp: 25098

Ion Ratio Lower Upper

83 100

131 8.8 4.3 13.1

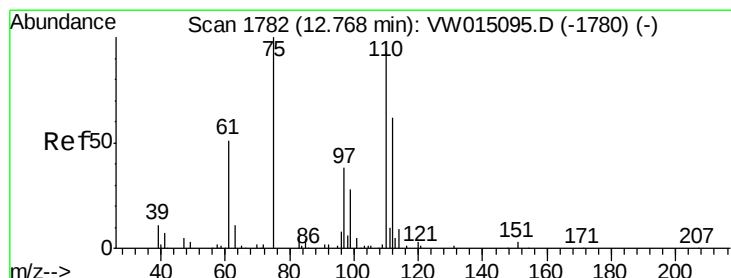
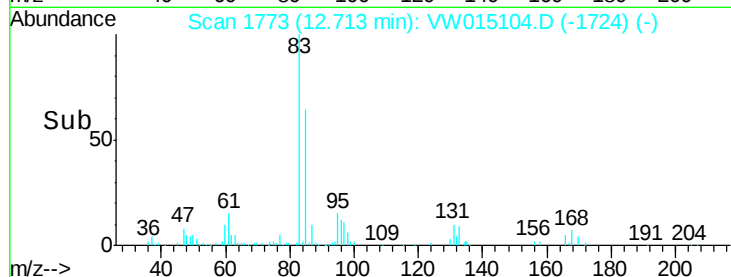
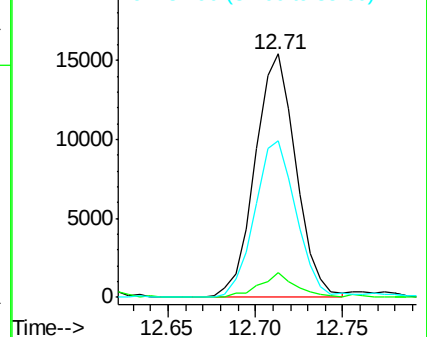
85 65.7 31.5 94.5



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 9.57 ug/l

RT: 12.76 min Scan# 1781

Delta R.T. -0.01 min

Lab File: VW015104.D

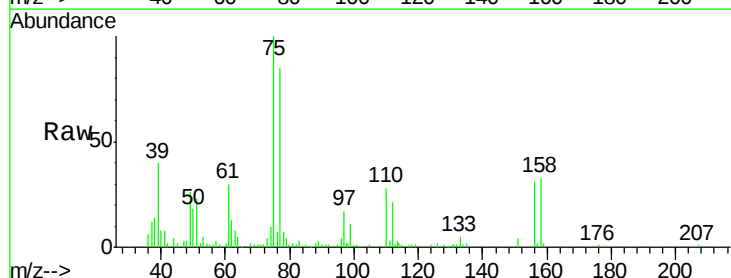
Acq: 09 Mar 2020 18:15

Tgt Ion: 75 Resp: 31417

Ion Ratio Lower Upper

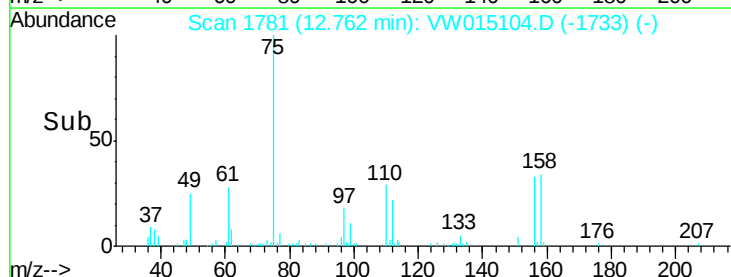
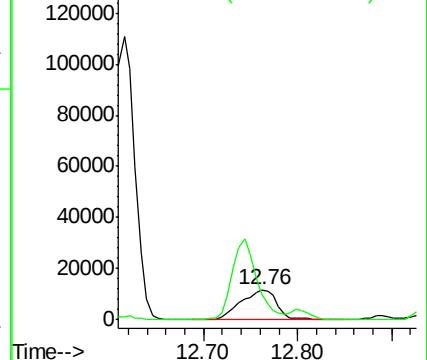
75 100

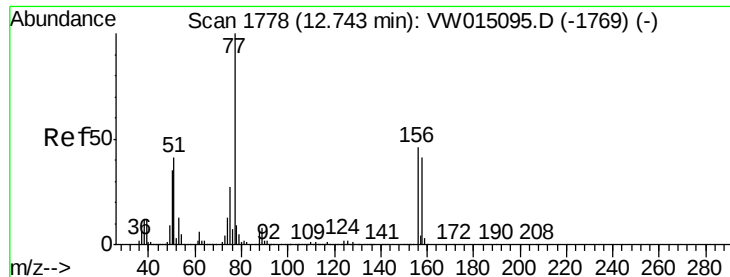
77 187.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 5.22 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

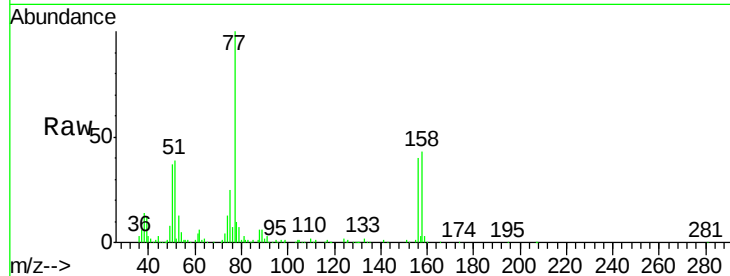
Tgt Ion:156 Resp: 22876

Ion Ratio Lower Upper

156 100

77 256.8 126.6 379.8

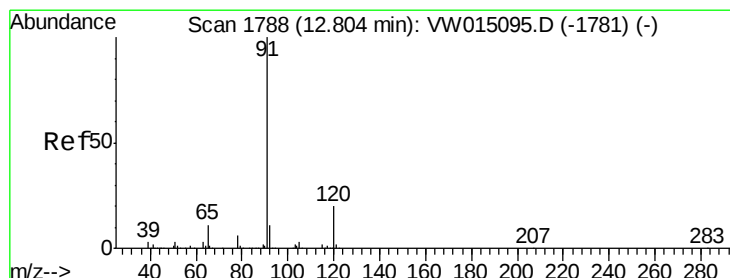
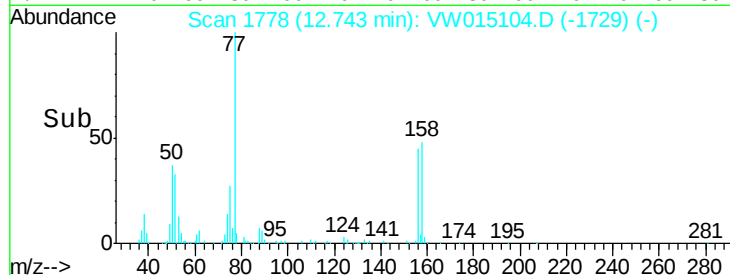
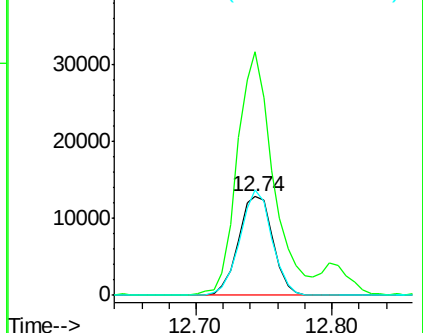
158 98.3 47.4 142.2



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: 4.85 ug/l

RT: 12.80 min Scan# 1787

Delta R.T. -0.01 min

Lab File: VW015104.D

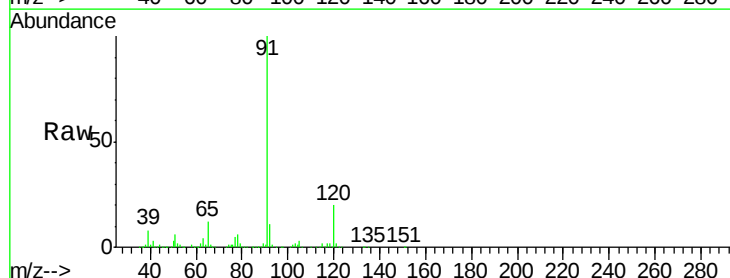
Acq: 09 Mar 2020 18:15

Tgt Ion: 91 Resp: 139877

Ion Ratio Lower Upper

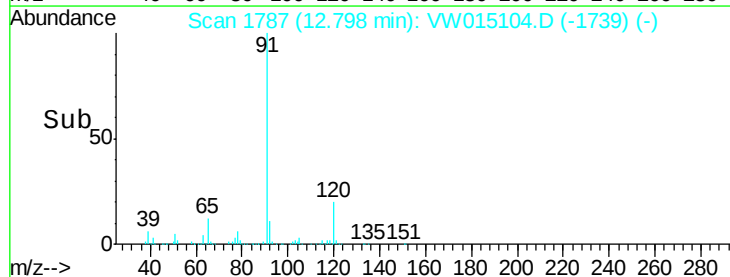
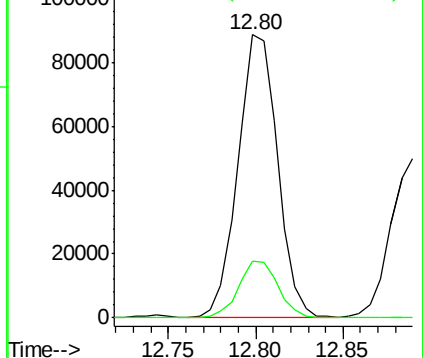
91 100

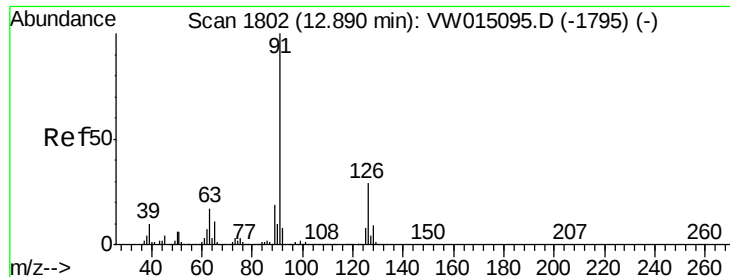
120 20.1 10.2 30.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.87 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

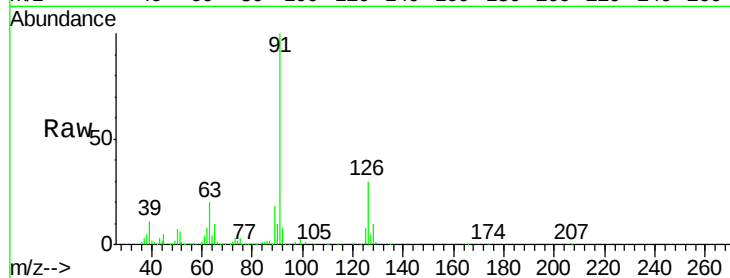
LOQ-SOIL-02-QT1-2020

Tgt Ion: 91 Resp: 78854

Ion Ratio Lower Upper

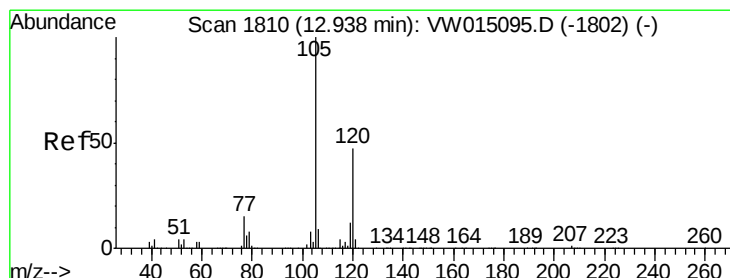
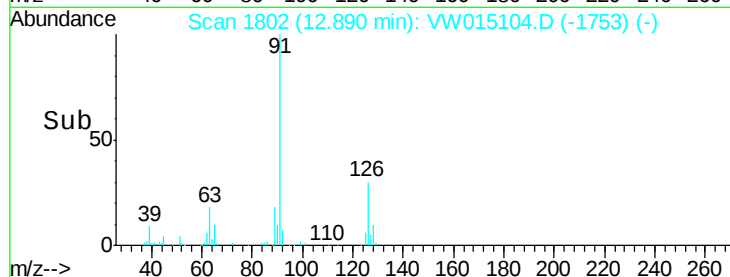
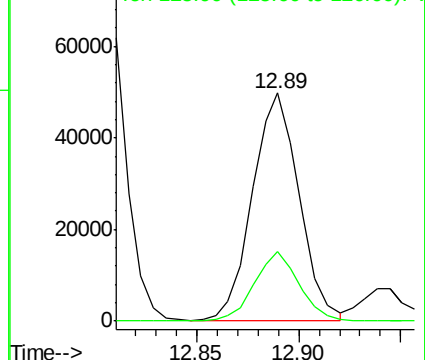
91 100

126 29.2 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 4.52 ug/l

RT: 12.94 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VW015104.D

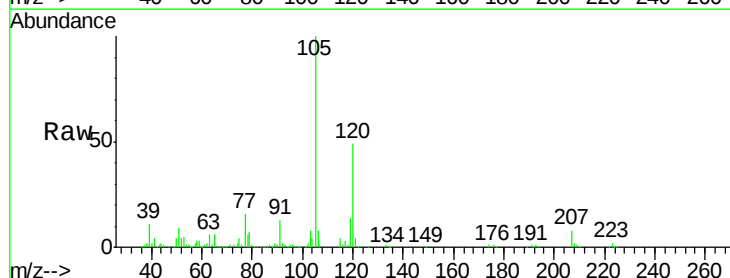
Acq: 09 Mar 2020 18:15

Tgt Ion: 105 Resp: 86192

Ion Ratio Lower Upper

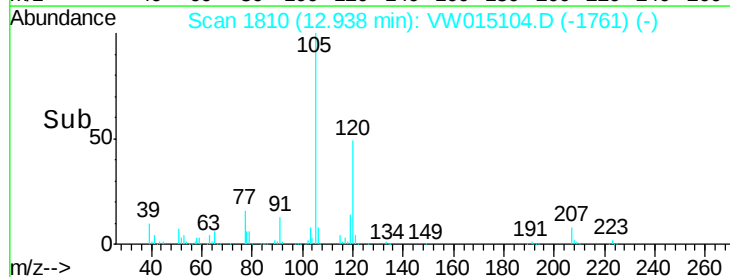
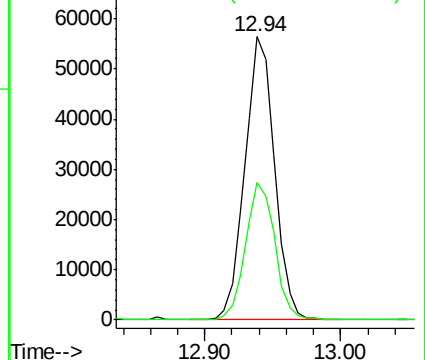
105 100

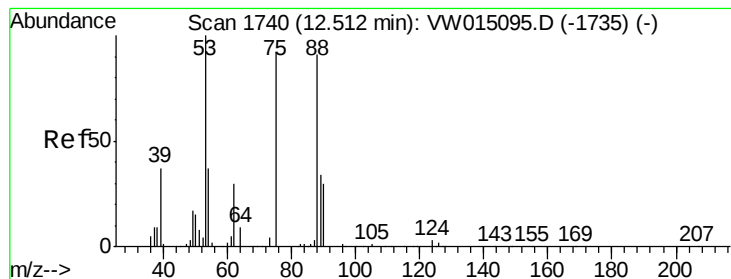
120 47.8 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 4.83 ug/l

RT: 12.51 min Scan# 1739

Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

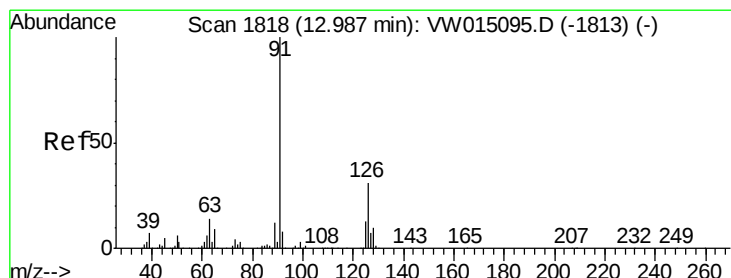
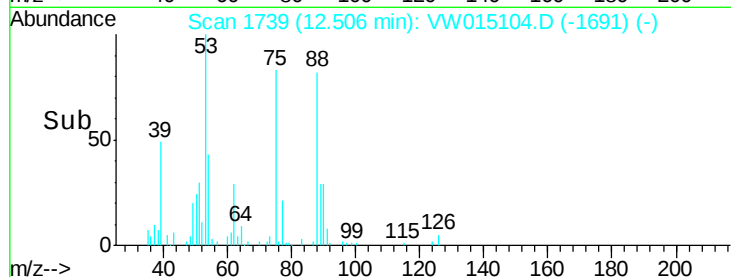
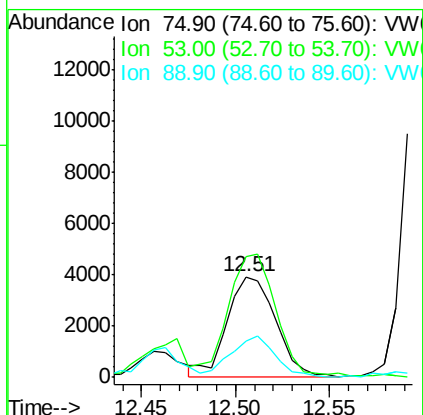
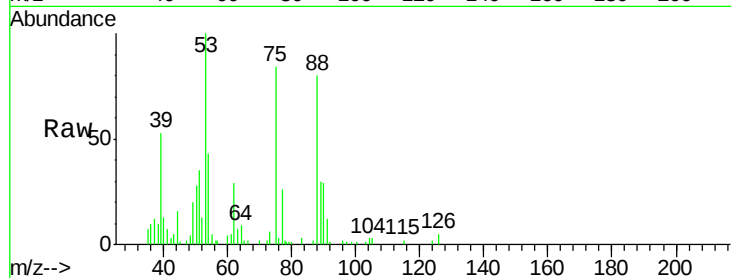
Tgt Ion: 75 Resp: 7013

Ion Ratio Lower Upper

75 100

53 120.2 88.4 132.6

89 37.9 33.1 49.7



#82

4-Chlorotoluene

Concen: 4.77 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VW015104.D

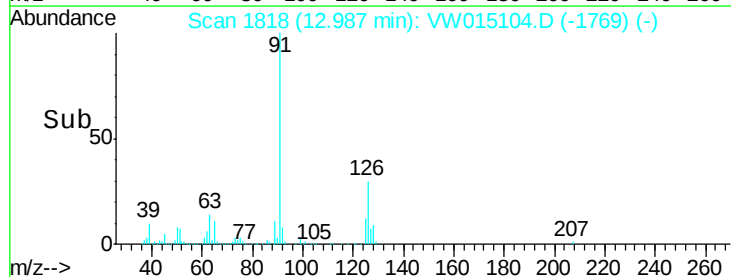
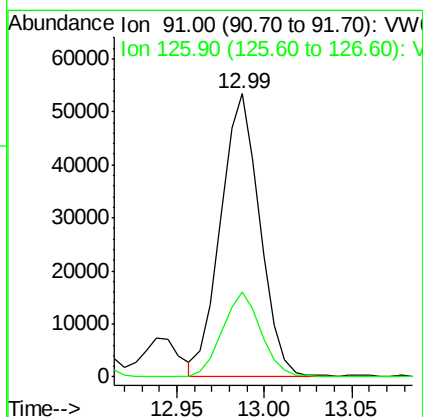
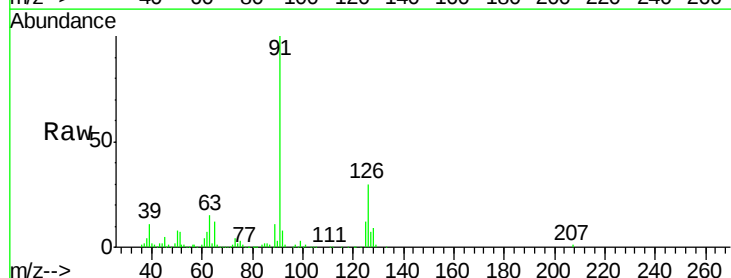
Acq: 09 Mar 2020 18:15

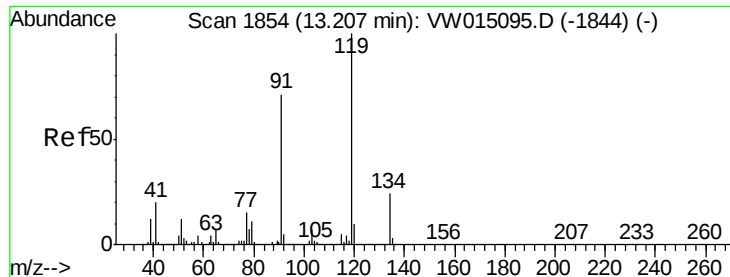
Tgt Ion: 91 Resp: 82336

Ion Ratio Lower Upper

91 100

126 29.9 14.8 44.4

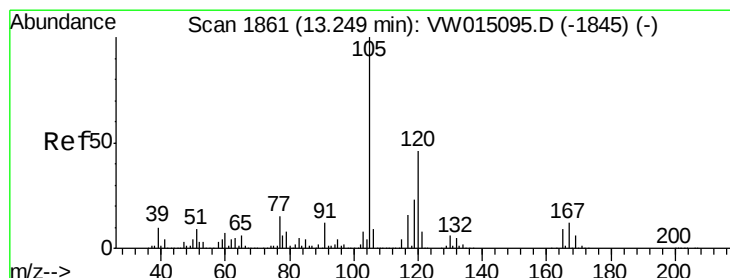
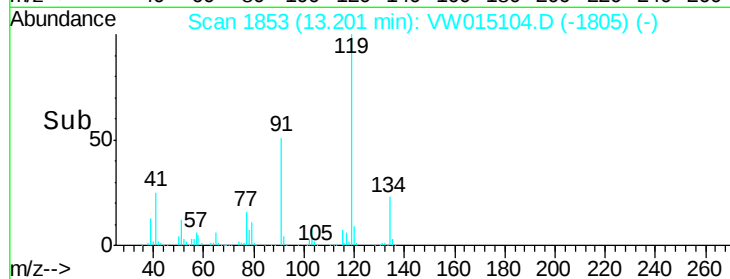
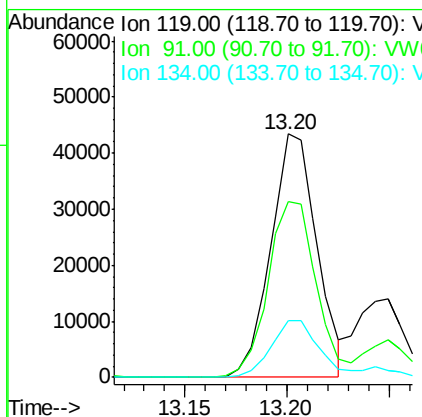
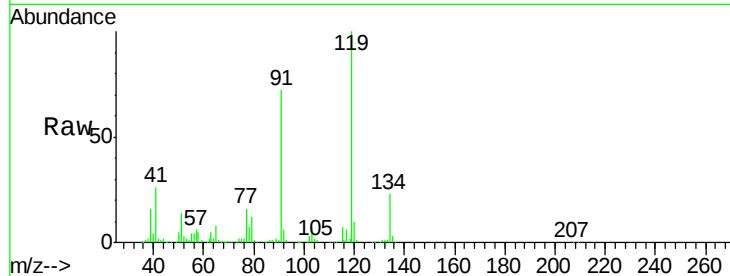




#83
 tert-Butylbenzene
 Concen: 4.43 ug/l
 RT: 13.20 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

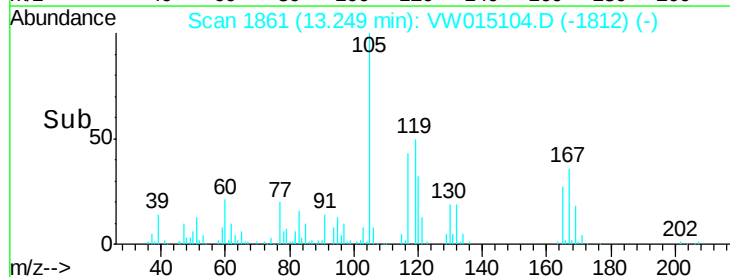
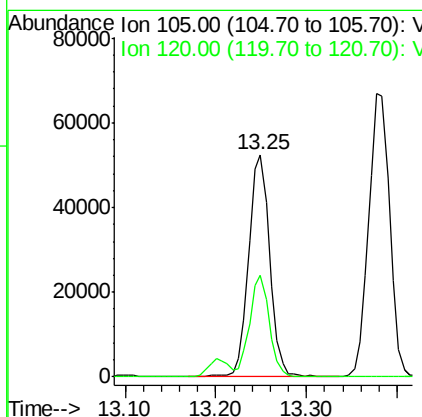
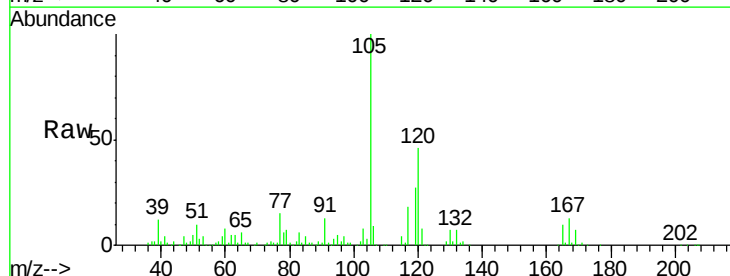
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

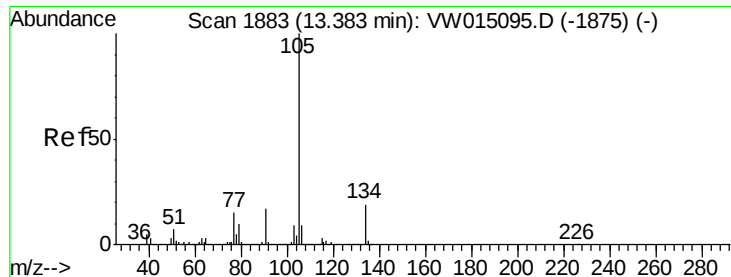
Tgt Ion:119 Resp: 68469
 Ion Ratio Lower Upper
 119 100
 91 75.2 35.7 107.1
 134 24.1 12.7 38.1



#84
 1,2,4-Trimethylbenzene
 Concen: 4.46 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

Tgt Ion:105 Resp: 84972
 Ion Ratio Lower Upper
 105 100
 120 42.6 22.1 66.3





#85

sec-Butylbenzene

Concen: 4.59 ug/l

RT: 13.38 min Scan# 1882

Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

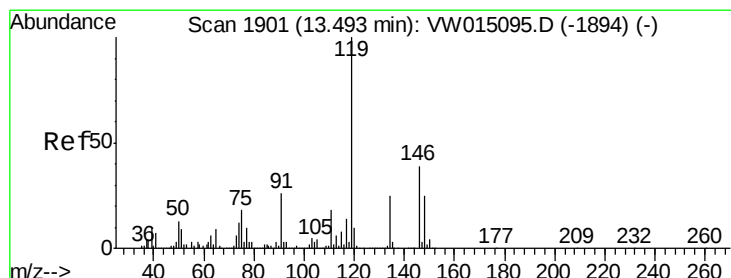
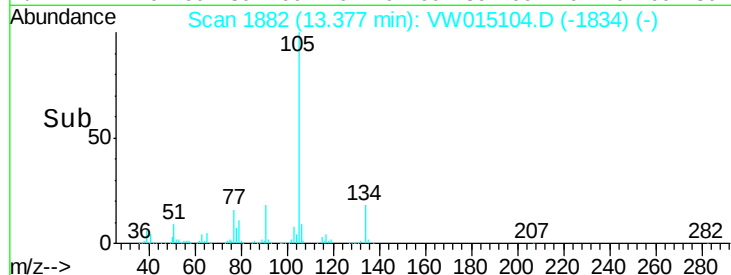
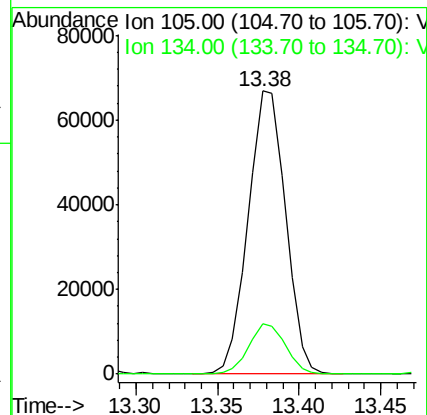
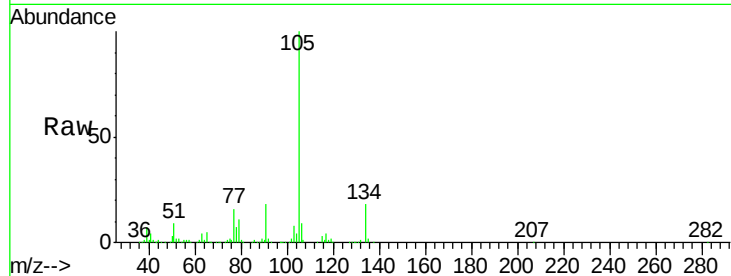
LOQ-SOIL-02-QT1-2020

Tgt Ion:105 Resp: 107234

Ion Ratio Lower Upper

105 100

134 17.6 9.0 27.1



#86

p-Isopropyltoluene

Concen: 4.42 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

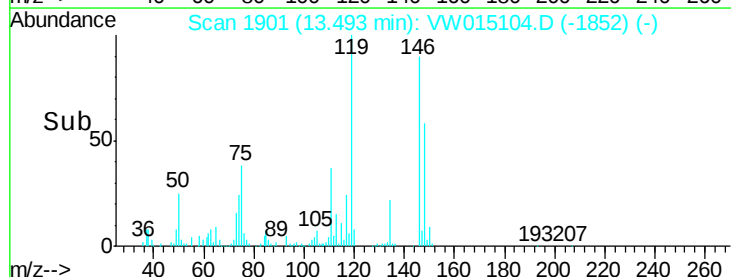
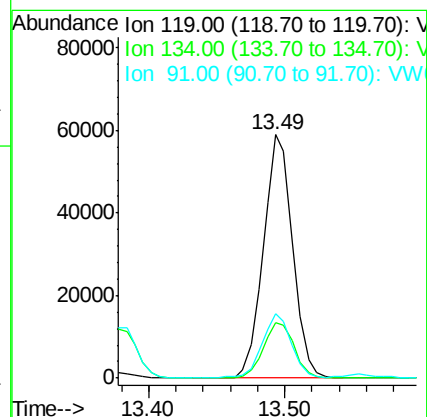
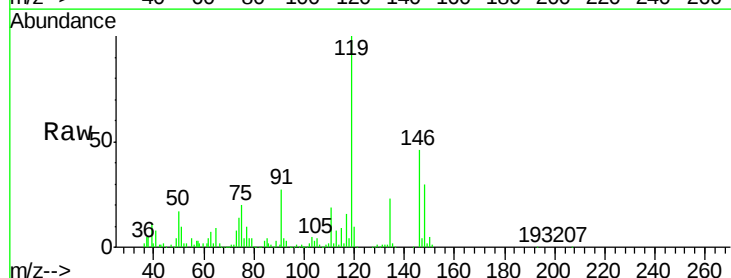
Tgt Ion:119 Resp: 88798

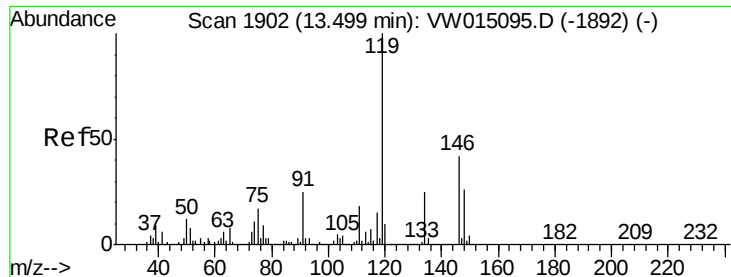
Ion Ratio Lower Upper

119 100

134 24.2 12.6 37.8

91 27.0 12.9 38.6





#87

1,3-Dichlorobenzene

Concen: 4.88 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

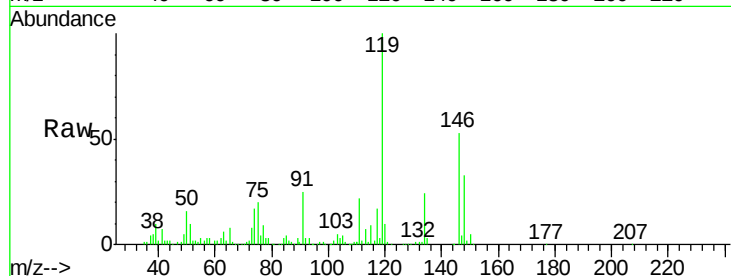
Tgt Ion:146 Resp: 45348

Ion Ratio Lower Upper

146 100

111 43.1 22.5 67.5

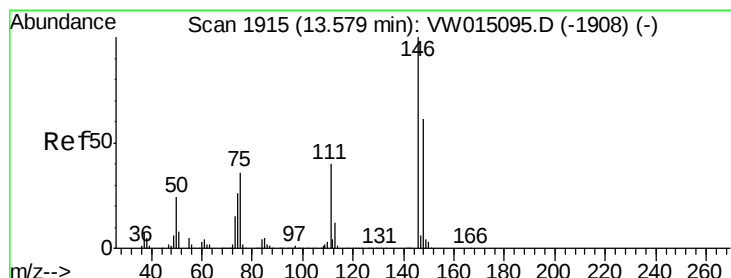
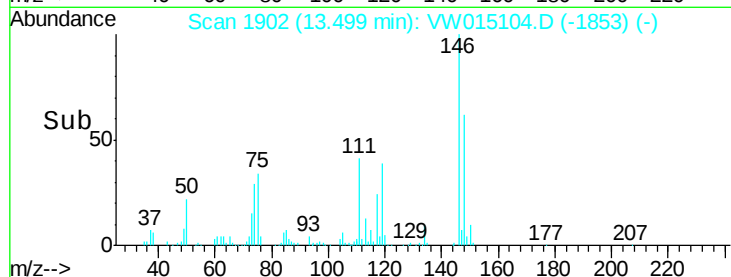
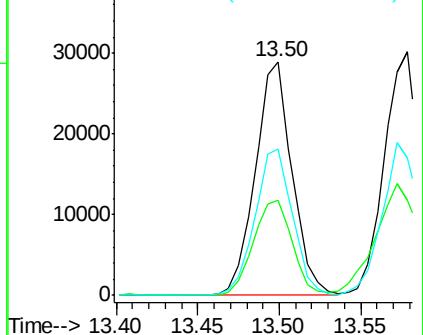
148 63.8 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 5.13 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

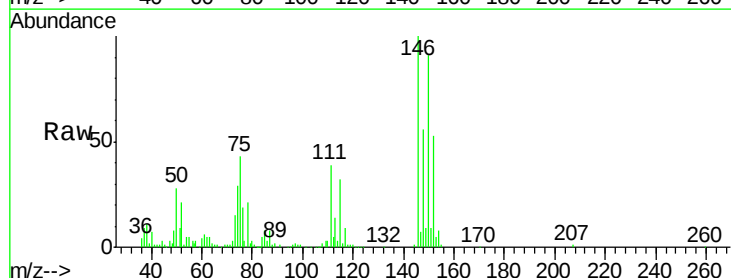
Tgt Ion:146 Resp: 46915

Ion Ratio Lower Upper

146 100

111 54.3 21.3 63.9

148 65.2 31.6 94.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

