

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 5PPBL00
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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 3/11/2020 3:24:18 PM

Quant Time: Mar 10 18:58:40 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	4.734	ug/l	98
3) Chloromethane	2.21	50	29067	5.743	ug/l	95
4) Vinyl Chloride	2.36	62	34460	5.201	ug/l	95
5) Bromomethane	2.78	94	18929	4.998	ug/l	99
6) Chloroethane	2.92	64	20089	5.235	ug/l	97
7) Trichlorofluoromethane	3.26	101	16845	5.080	ug/l	95
8) Diethyl Ether	3.68	74	13422	5.312	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	4.06	101	26220	5.187	ug/l	98
10) Methyl Iodide	4.27	142	28711	5.106	ug/l #	94
11) Tert butyl alcohol	5.16	59	14381	43.754	ug/l	98
12) 1,1-Dichloroethene	4.03	96	24513	4.960	ug/l	98
13) Acrolein	3.89	56	13410	27.897	ug/l	92
14) Allyl chloride	4.67	41	48507	4.898	ug/l	97
15) Acrylonitrile	5.37	53	34864	26.921	ug/l	98
16) Acetone	4.12	43	38642	29.627	ug/l	97
17) Carbon Disulfide	4.38	76	88556	5.054	ug/l	99
18) Methyl Acetate	4.67	43	17574	5.684	ug/l	95
19) Methyl tert-butyl Ether	5.42	73	33878	5.355	ug/l #	88
20) Methylene Chloride	4.91	84	49829	8.252	ug/l	92
21) trans-1,2-Dichloroethene	5.42	96	26737	5.096	ug/l	96
22) Diisopropyl ether	6.31	45	92390	4.862	ug/l	93
23) Vinyl Acetate	6.26	43	259255	23.112	ug/l	99
24) 1,1-Dichloroethane	6.21	63	59422	5.362	ug/l	98
25) 2-Butanone	7.17	43	49040	27.427	ug/l	99
26) 2,2-Dichloropropane	7.17	77	37602	5.933	ug/l	97
27) cis-1,2-Dichloroethene	7.17	96	27486	5.032	ug/l	89
28) Bromochloromethane	7.51	49	28734	5.412	ug/l	97
29) Tetrahydrofuran	7.53	42	29005	25.934	ug/l	98
30) Chloroform	7.68	83	52466	5.335	ug/l	95
31) Cyclohexane	7.95	56	65143	5.716	ug/l #	77
32) 1,1,1-Trichloroethane	7.87	97	41265	5.374	ug/l	96
36) 1,1-Dichloropropene	8.08	75	43938	5.095	ug/l	99
37) Ethyl Acetate	7.25	43	23637	5.499	ug/l	99
38) Carbon Tetrachloride	8.06	117	34200	4.872	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	46254	4.691	ug/l	97
40) Benzene	8.32	78	124588	5.199	ug/l	97
41) Methacrylonitrile	7.48	41	9952	4.378	ug/l #	87
42) 1,2-Dichloroethane	8.40	62	39696	5.437	ug/l	98
43) Isopropyl Acetate	8.42	43	41462	5.381	ug/l	99
44) Trichloroethene	9.09	130	24964	4.893	ug/l	99
45) 1,2-Dichloropropane	9.37	63	33758	5.230	ug/l	99
46) Dibromomethane	9.46	93	14528	5.177	ug/l	97
47) Bromodichloromethane	9.64	83	37844	5.051	ug/l	96
48) Methyl methacrylate	9.43	41	16784	4.720	ug/l	96
49) 1,4-Dioxane	9.45	88	4078	94.910	ug/l #	80
51) 4-Methyl-2-Pentanone	10.21	43	103280	24.266	ug/l	99
52) Toluene	10.38	92	69280	5.032	ug/l	98
53) t-1,3-Dichloropropene	10.60	75	35098	4.762	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	42231	4.703	ug/l	98
55) 1,1,2-Trichloroethane	10.78	97	20531	5.339	ug/l	97
56) Ethyl methacrylate	10.64	69	21834	4.400	ug/l	96
57) 1,3-Dichloropropane	10.93	76	36838	5.032	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.92	63	66047	22.686	ug/l	100
59) 2-Hexanone	10.96	43	61212	23.025	ug/l	96
60) Dibromochloromethane	11.13	129	18963	4.775	ug/l	97
61) 1,2-Dibromoethane	11.23	107	17508	5.136	ug/l	100
64) Tetrachloroethene	10.86	164	18783	4.974	ug/l	92
65) Chlorobenzene	11.65	112	67034	5.104	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	21650	4.950	ug/l	98
67) Ethyl Benzene	11.73	91	120888	4.730	ug/l	95
68) m/p-Xylenes	11.84	106	81419	9.011	ug/l	96
69) o-Xylene	12.16	106	36593	4.496	ug/l	98
70) Styrene	12.18	104	59829	4.290	ug/l	100
71) Bromoform	12.34	173	9293	4.788	ug/l #	100
73) Isopropylbenzene	12.46	105	99655	4.493	ug/l	99
74) N-amyl acetate	12.27	43	29469	4.495	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	25098	5.572	ug/l	97
76) 1,2,3-Trichloropropane	12.76	75	18941m	5.772	ug/l	
77) Bromobenzene	12.74	156	22876	5.218	ug/l	98
78) n-propylbenzene	12.80	91	139877	4.852	ug/l	100
79) 2-Chlorotoluene	12.89	91	78854	4.865	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	86192	4.519	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	7013	4.827	ug/l	92
82) 4-Chlorotoluene	12.99	91	82336	4.770	ug/l	99
83) tert-Butylbenzene	13.20	119	68469	4.432	ug/l	96
84) 1,2,4-Trimethylbenzene	13.25	105	84972	4.456	ug/l	98
85) sec-Butylbenzene	13.38	105	107234	4.586	ug/l	99
86) p-Isopropyltoluene	13.49	119	88798	4.418	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	45348	4.882	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	46915	5.129	ug/l	91
89) n-Butylbenzene	13.82	91	96797	4.466	ug/l	96
90) Hexachloroethane	14.09	117	20588	5.107	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	39672	4.876	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.48	75	4115	5.689	ug/l	87

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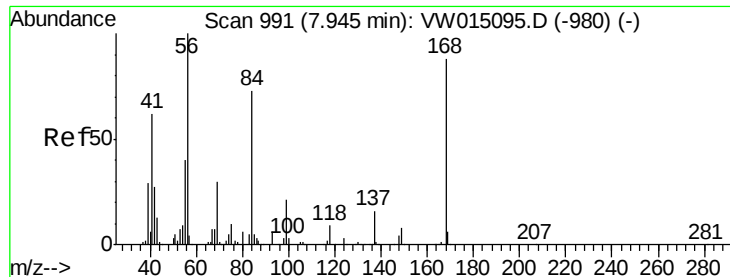
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	19027	4.087	ug/l	98
94) Hexachlorobutadiene	15.23	225	14270	4.882	ug/l	99
95) Naphthalene	15.36	128	29534	3.397	ug/l	98
96) 1,2,3-Trichlorobenzene	15.55	180	17043	4.127	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:168 Resp: 388949

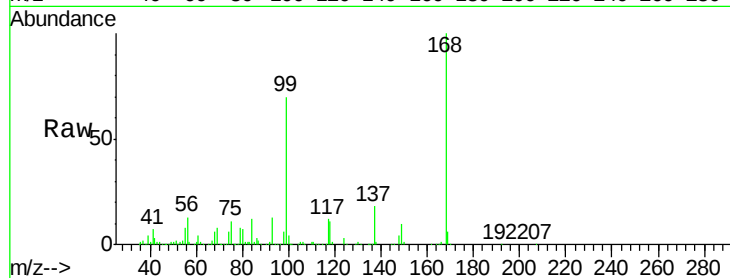
Ion Ratio Lower Upper

168 100

99 70.1 57.2 85.8

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Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

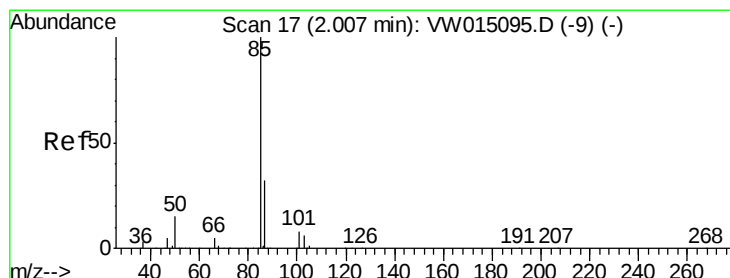
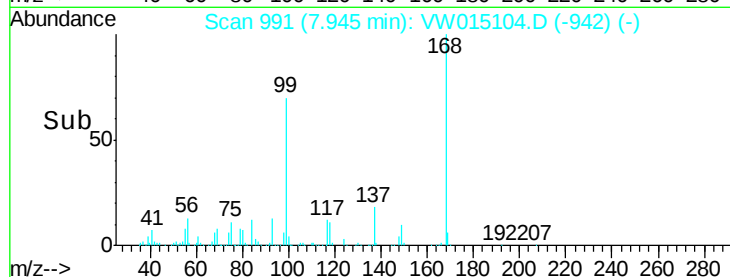
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50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 4.734 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW015104.D

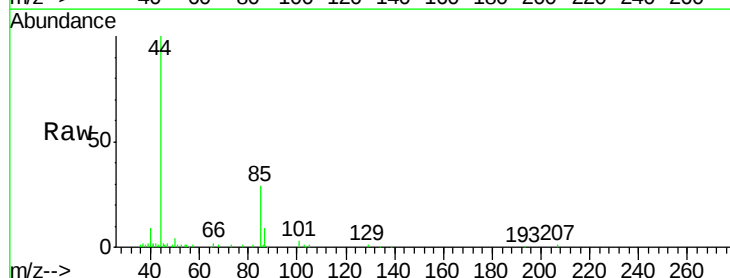
Acq: 09 Mar 2020 18:15

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

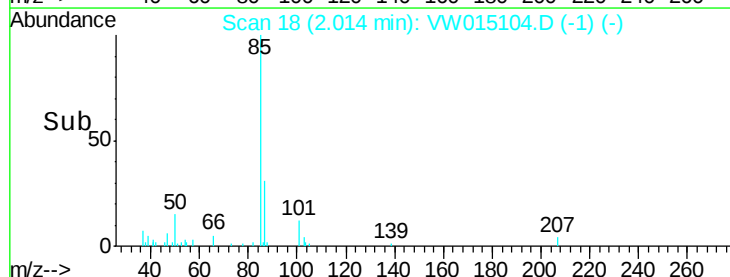
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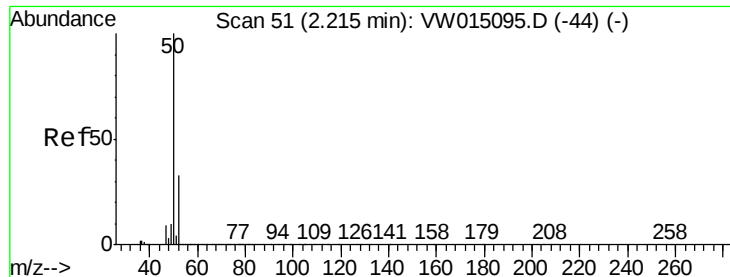
1000

0

1.90 2.00 2.10

Time-->





#3

Chloromethane

Concen: 5.743 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

Tot Ion: 50 Resp: 29067

Ion Ratio Lower Upper

50 100

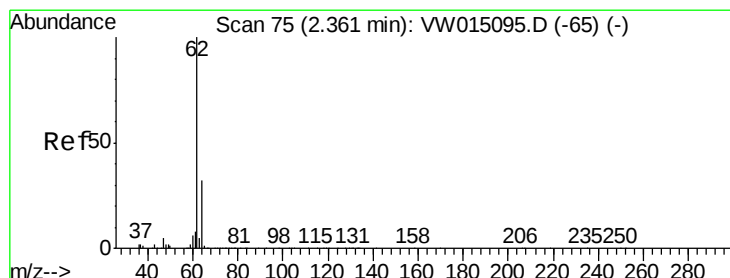
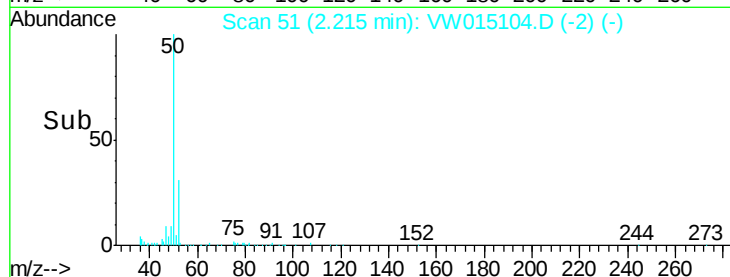
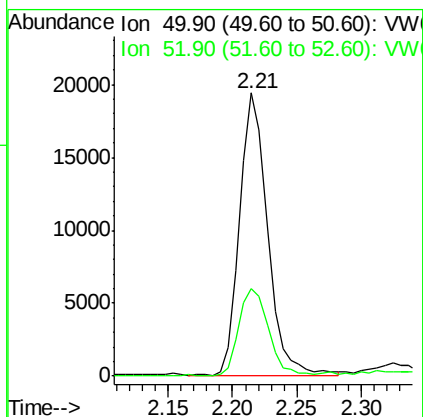
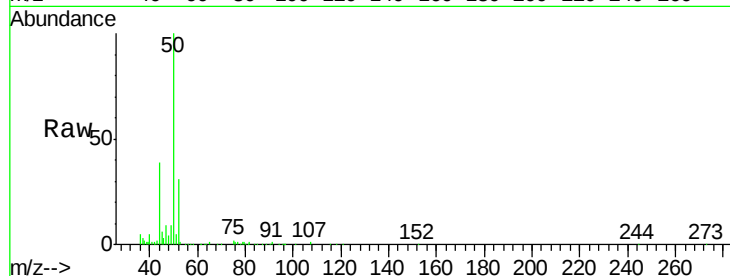
52 30.4 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 5.201 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW015104.D

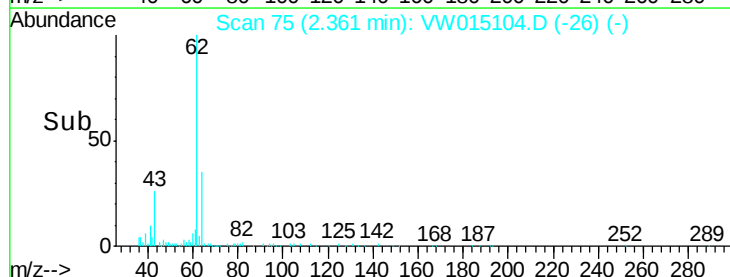
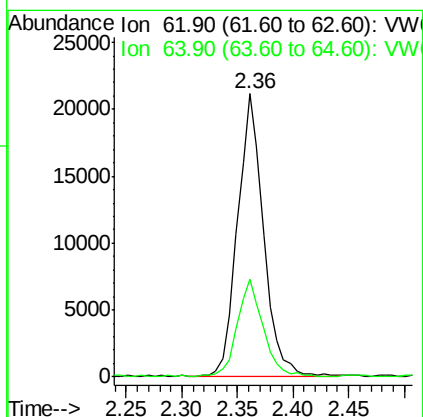
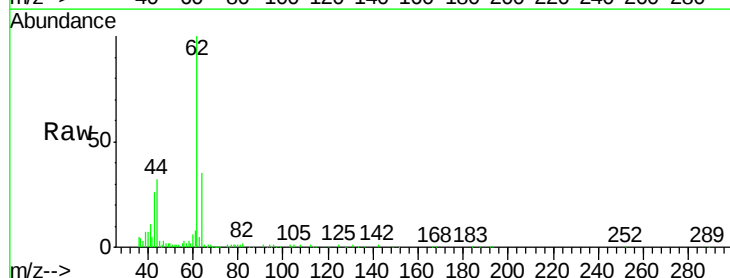
Acq: 09 Mar 2020 18:15

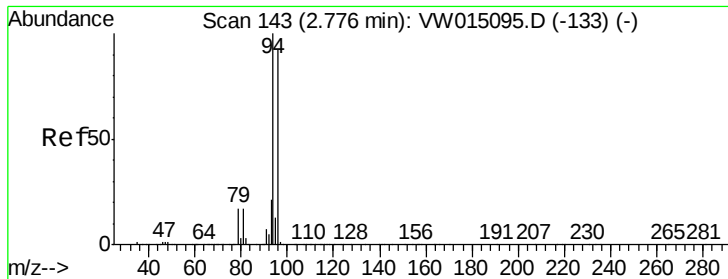
Tgt Ion: 62 Resp: 34460

Ion Ratio Lower Upper

62 100

64 34.2 25.3 37.9





#5

Bromomethane

Concen: 4.998 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 :

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Tot Ion: 94 Resp: 18929

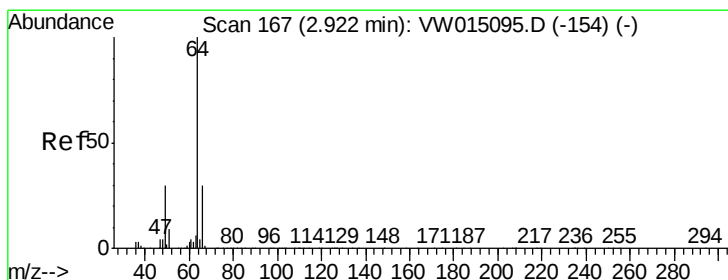
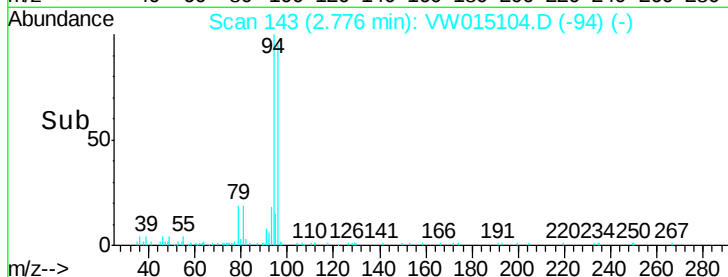
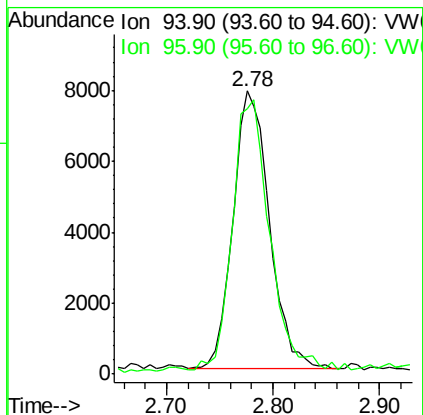
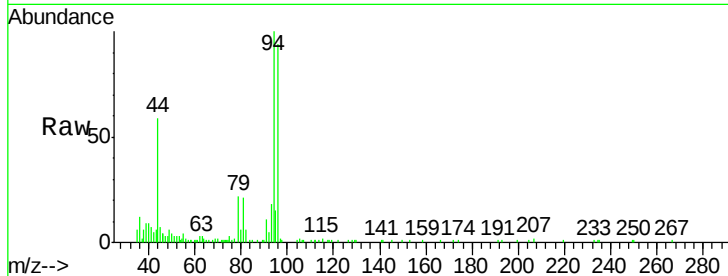
Ion Ratio Lower Upper

94 100

96 93.7 74.0 111.0

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#6

Chloroethane

Concen: 5.235 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW015104.D

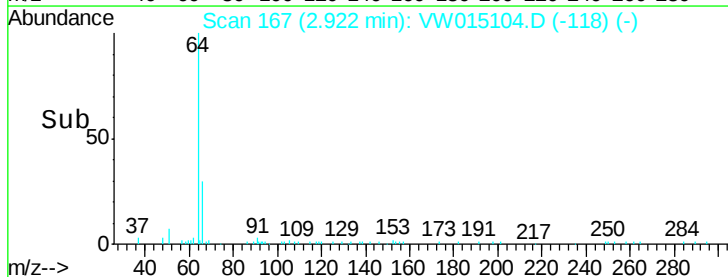
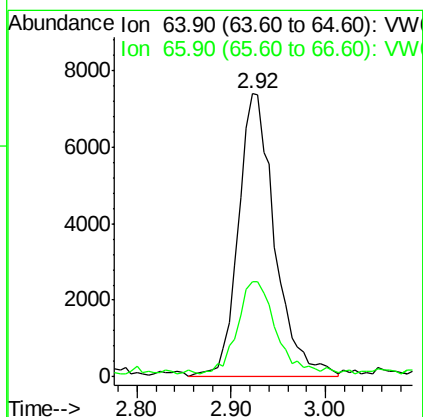
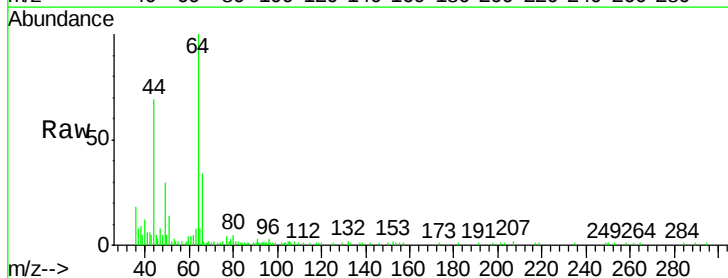
Acq: 09 Mar 2020 18:15

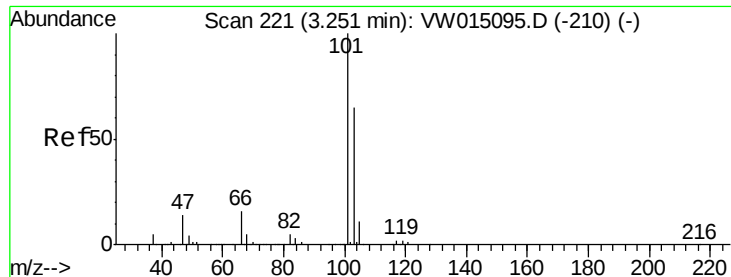
Tgt Ion: 64 Resp: 20089

Ion Ratio Lower Upper

64 100

66 31.9 24.2 36.2





#7

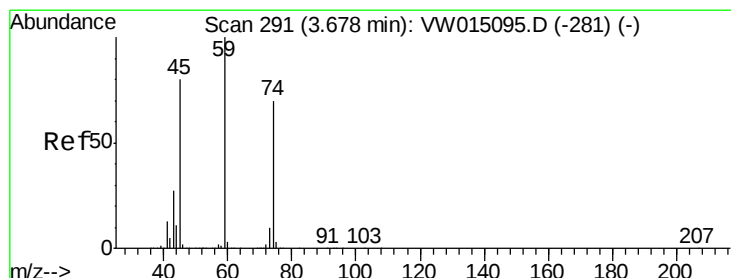
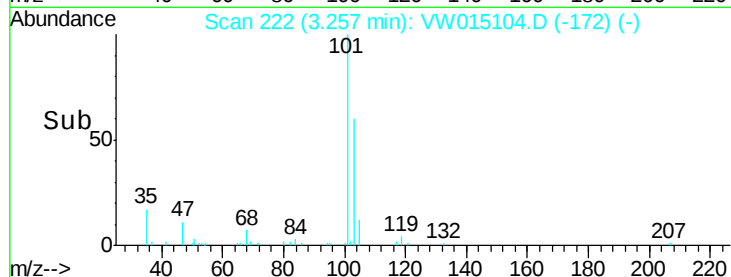
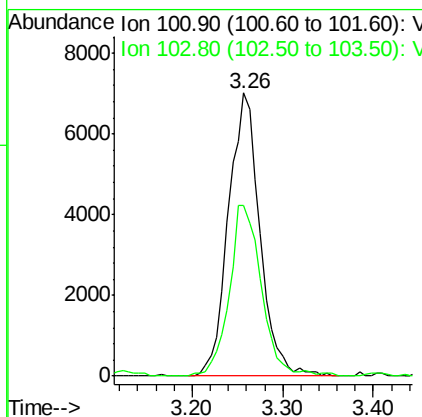
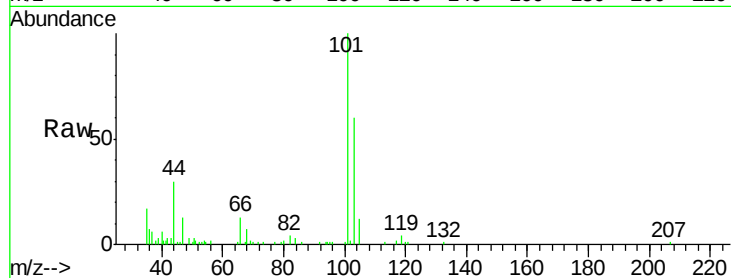
Trichlorofluoromethane
Concen: 5.080 ug/l
RT: 3.26 min Scan# 222
Delta R.T. 0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Resp	Lower	Upper
101	100	16845		
103	60.4	51.8	77.6	

Manual Integrations
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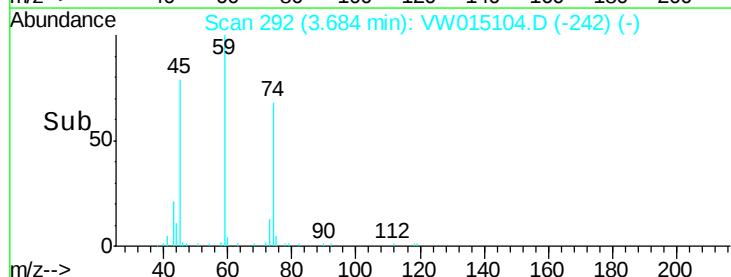
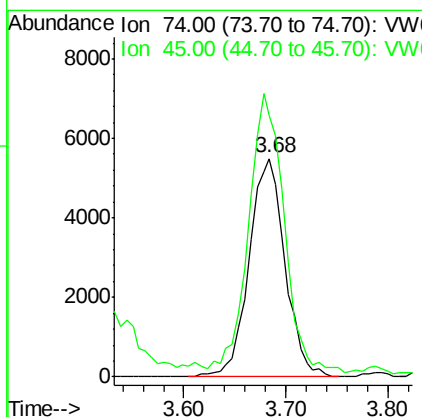
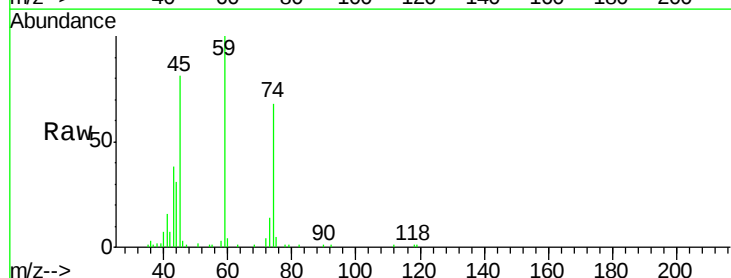
MMDadoda
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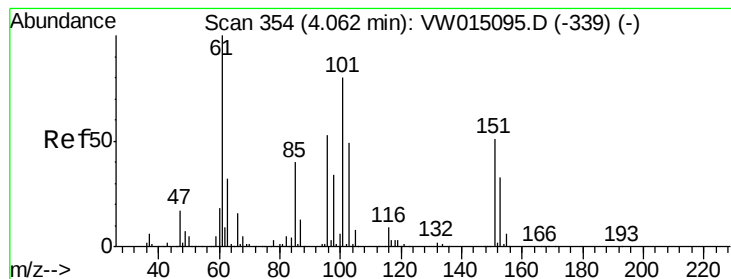


#8

Diethyl Ether
Concen: 5.312 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	Ratio	Resp	Lower	Upper
74	100	13422		
45	130.6	59.2	177.5	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.187 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

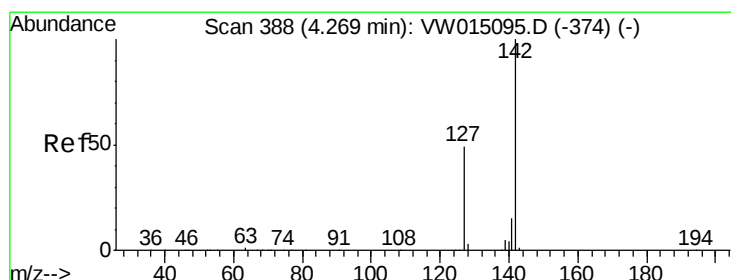
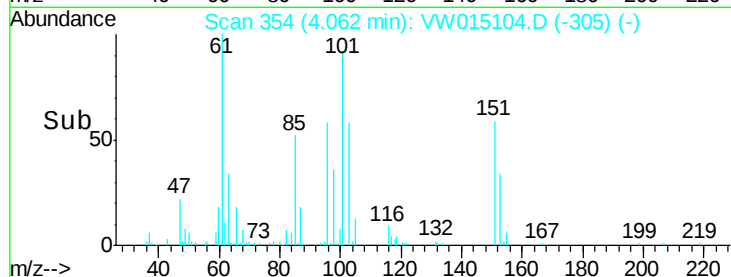
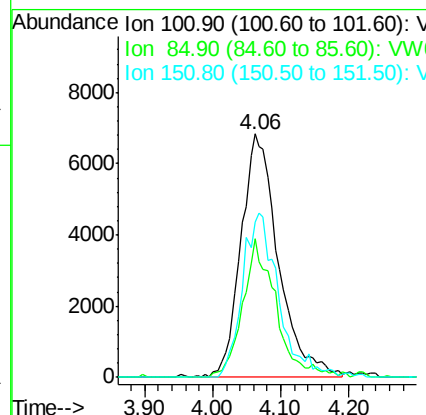
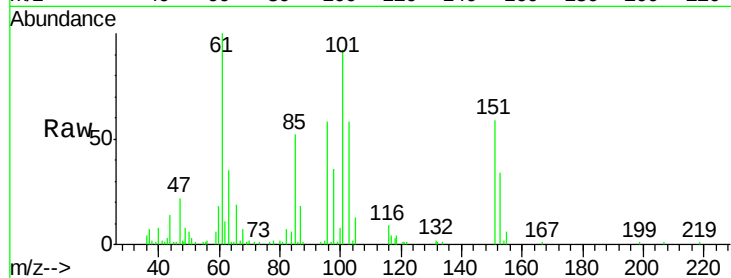
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	101	Resp:	26220
Ion Ratio	Lower	Upper	
101	100		
85	50.2	39.0	58.4
151	64.7	50.8	76.2

Manual Integrations
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#10

Methyl Iodide

Concen: 5.106 ug/l

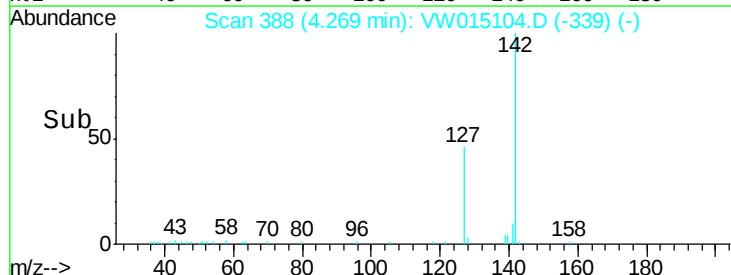
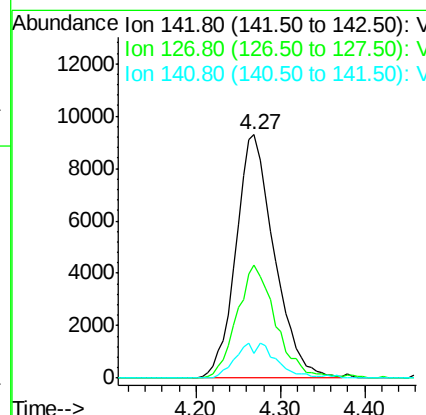
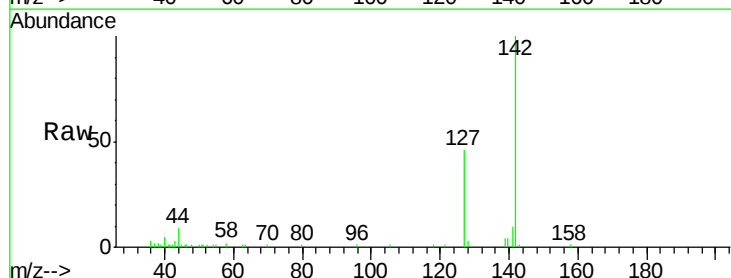
RT: 4.27 min Scan# 388

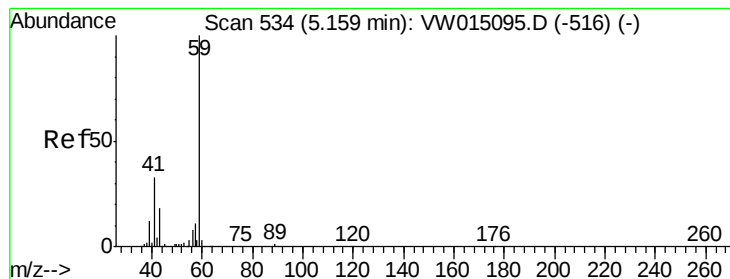
Delta R.T. 0.00 min

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#





#11

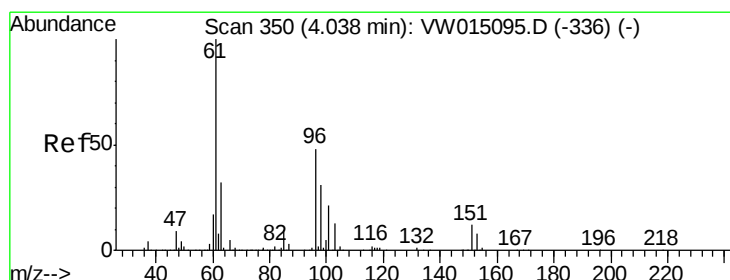
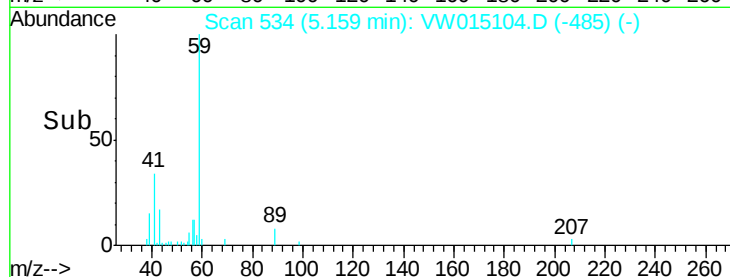
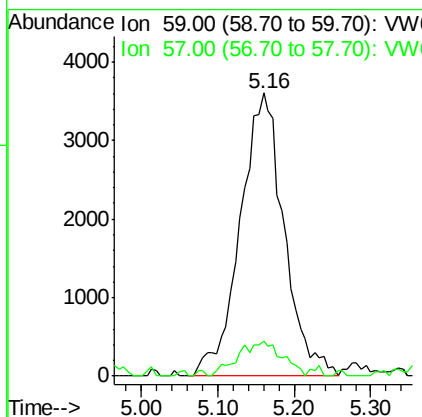
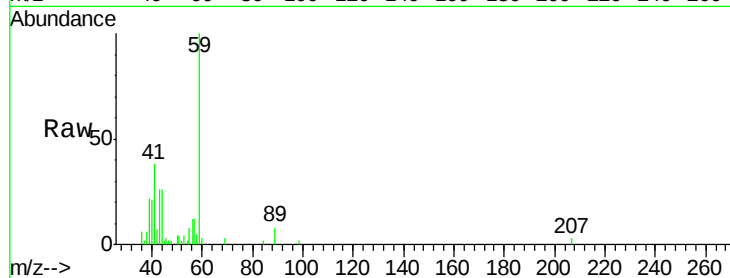
Tert butyl alcohol
 Concen: 43.754 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.3	9.1	13.7

Manual Integrations
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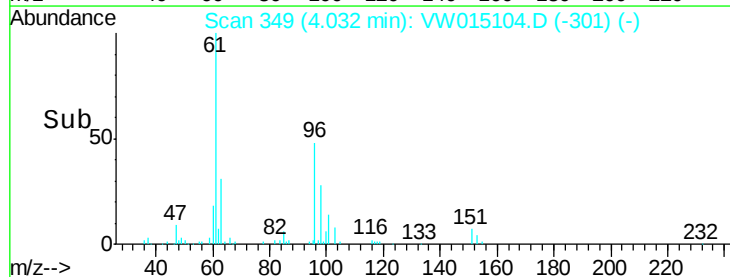
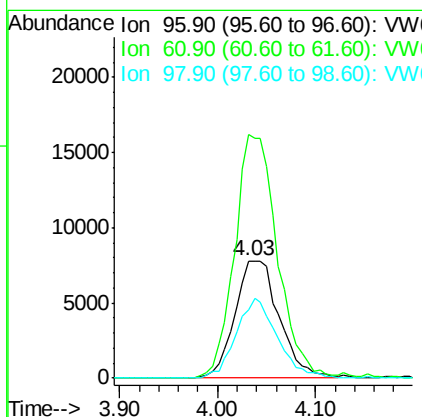
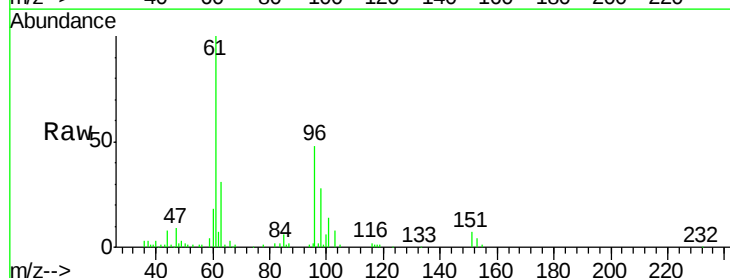
MMDadoda
 3/11/2020 3:24:18 PM

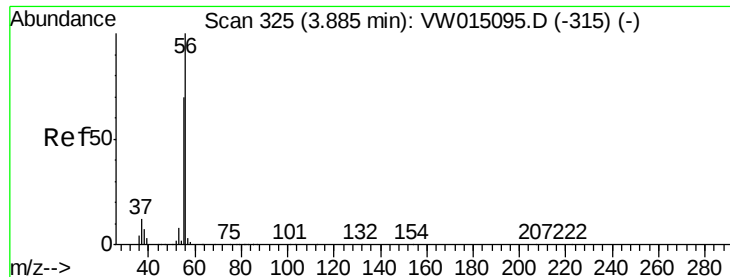


#12

1,1-Dichloroethene
 Concen: 4.960 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	Ratio	Lower	Upper
96	100		
61	207.3	165.5	248.3
98	57.6	51.1	76.7





#13

Acrolein

Concen: 27.897 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

Tot Ion: 56 Resp: 13410

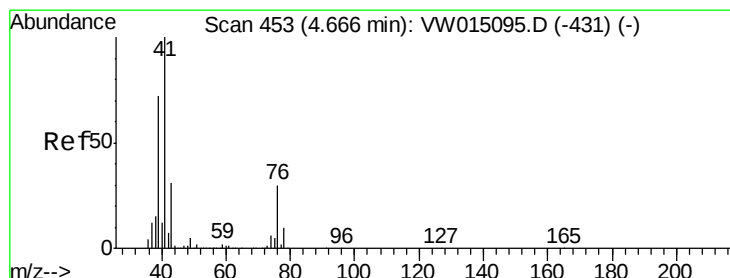
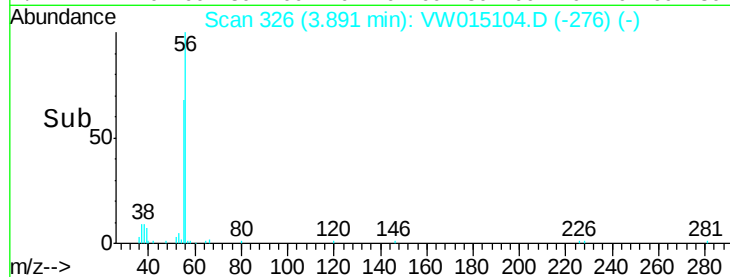
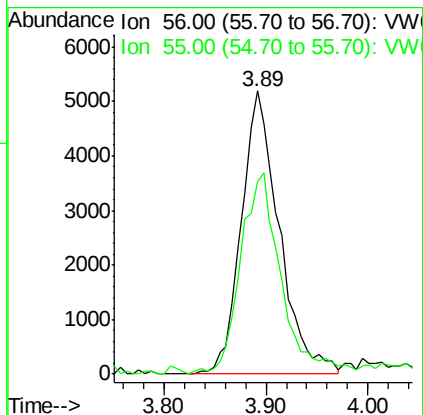
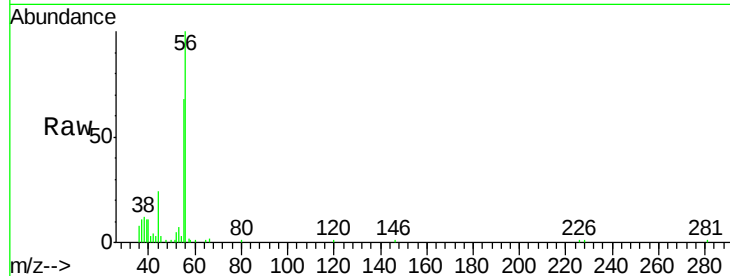
Ion Ratio Lower Upper

56 100

55 76.0 55.4 83.2

Manual Integrations
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#14

Allyl chloride

Concen: 4.898 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

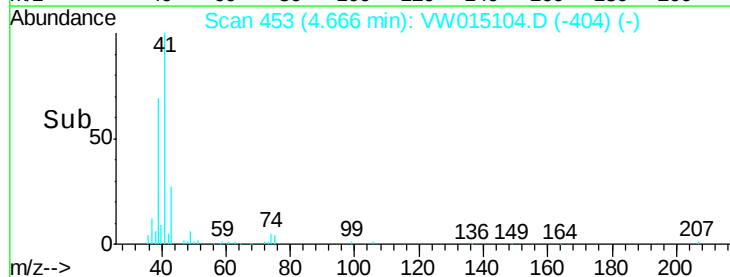
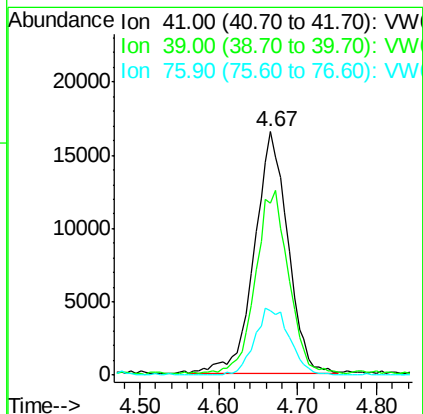
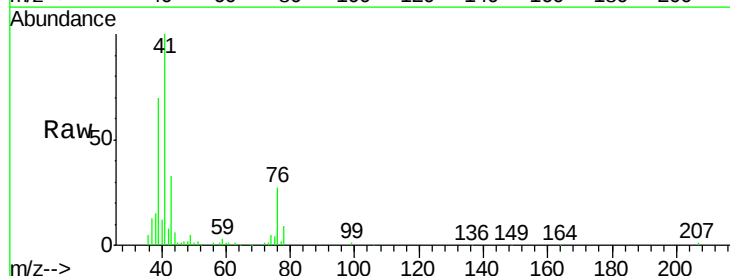
Tgt Ion: 41 Resp: 48507

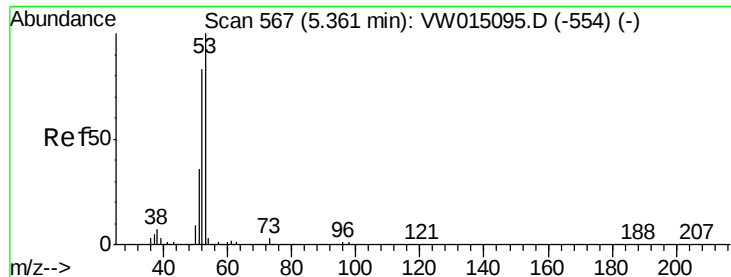
Ion Ratio Lower Upper

41 100

39 74.8 56.9 85.3

76 28.8 23.2 34.8





#15

Acrylonitrile

Concen: 26.921 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

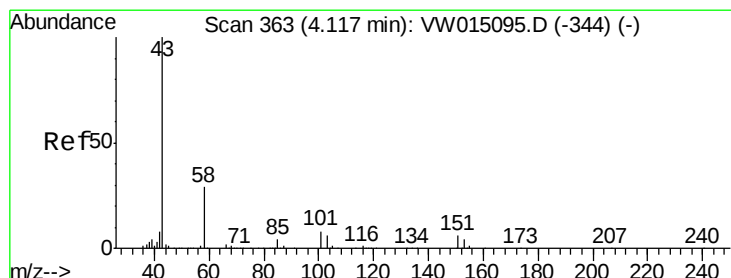
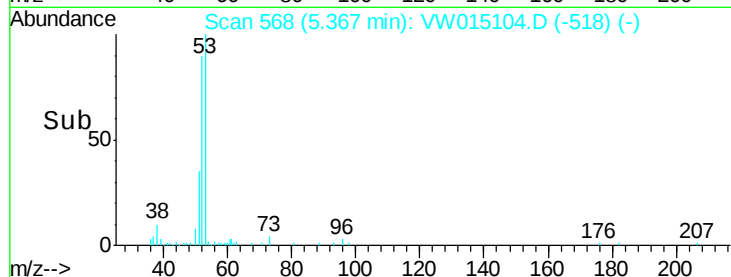
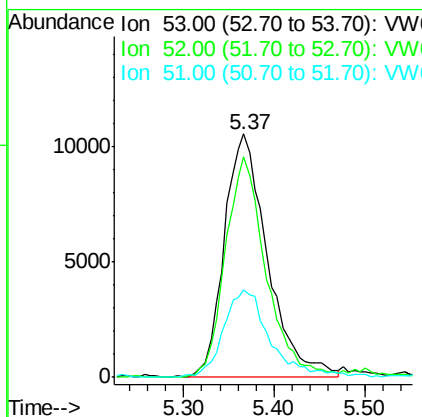
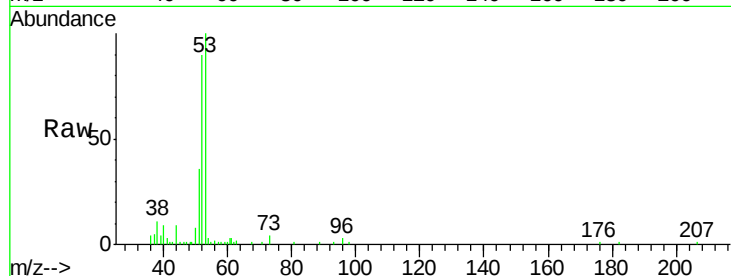
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	53	Resp:	34864
Ion	Ratio	Lower	Upper
53	100		
52	85.5	67.2	100.8
51	38.4	29.8	44.6

Manual Integrations
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#16

Acetone

Concen: 29.627 ug/l

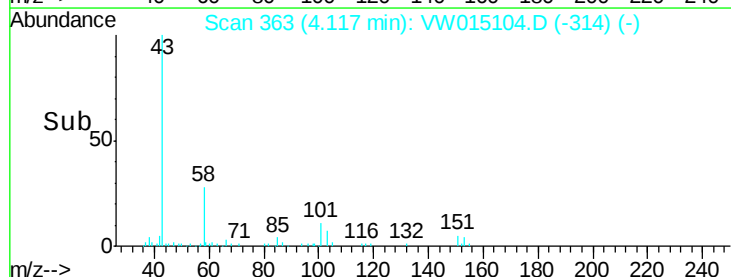
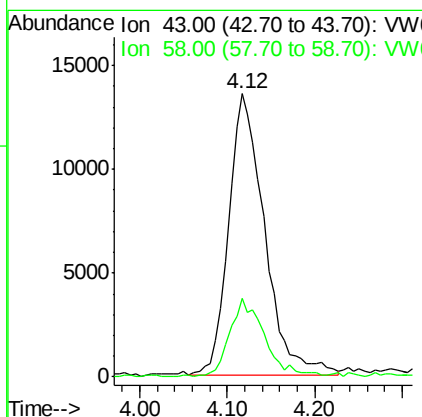
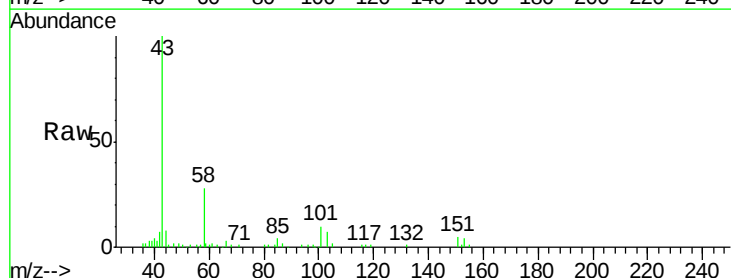
RT: 4.12 min Scan# 363

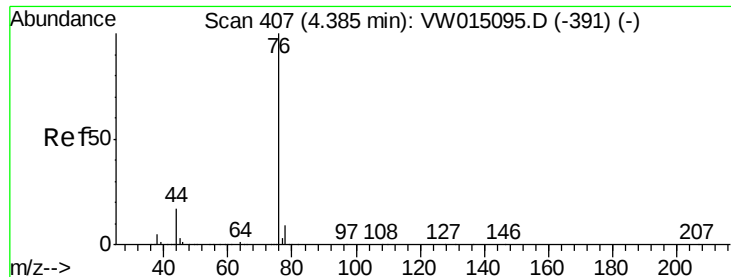
Delta R.T. 0.00 min

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





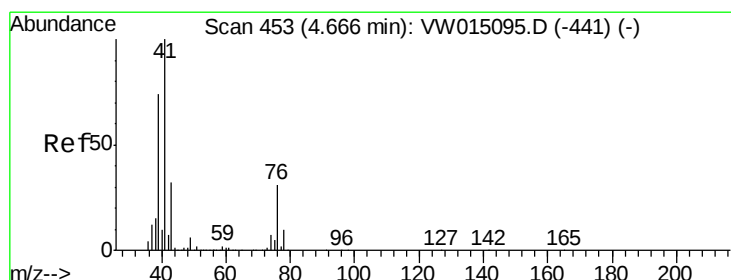
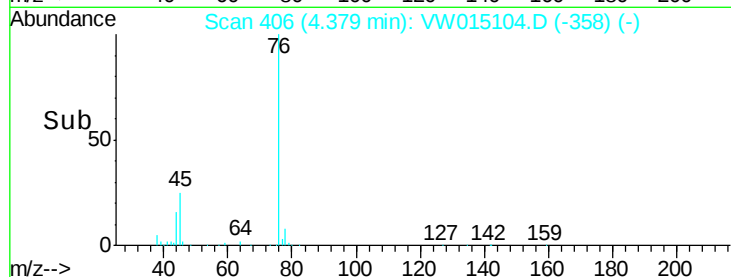
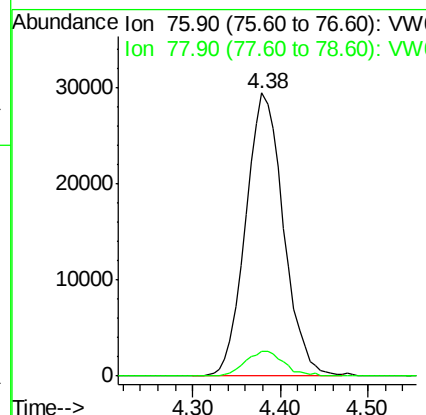
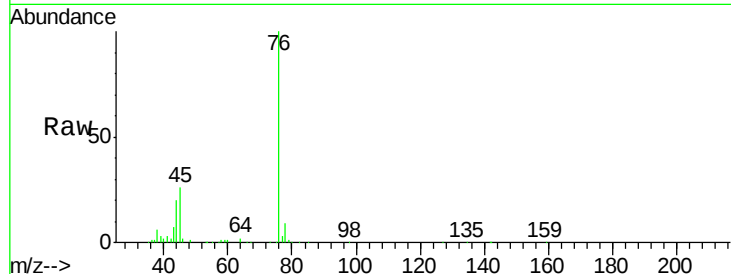
#17
Carbon Disulfide
Concen: 5.054 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Resp	Lower	Upper
76	100			
78	9.0	6.9	10.3	

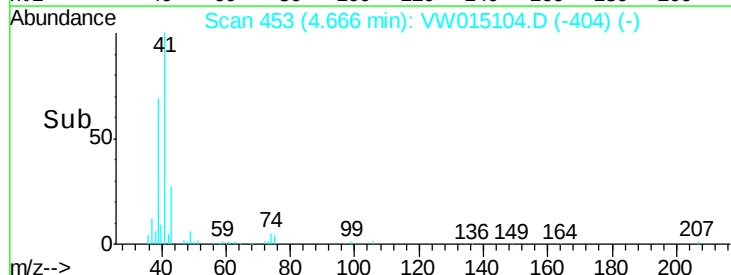
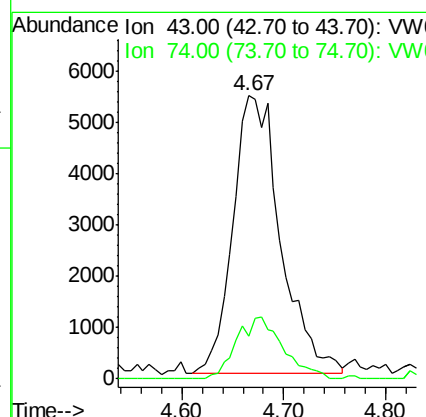
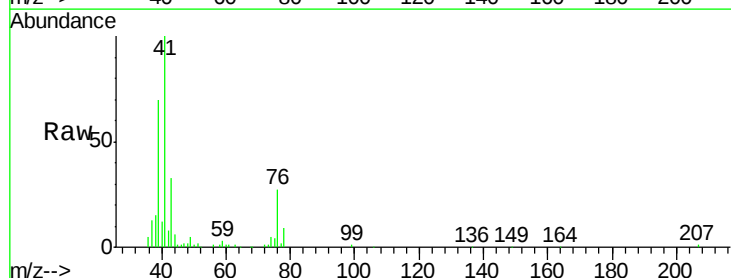
Manual Integrations
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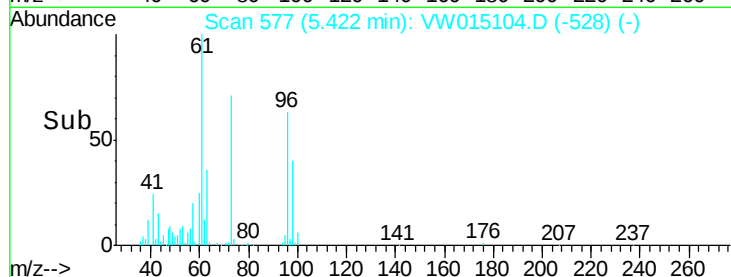
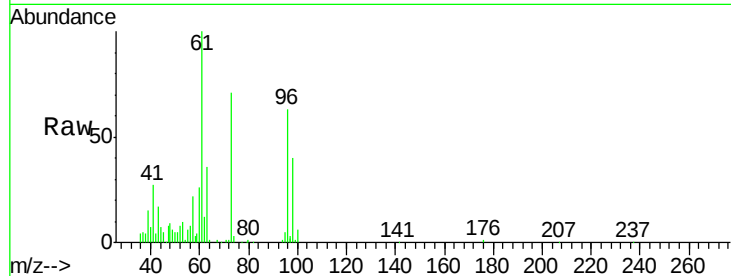
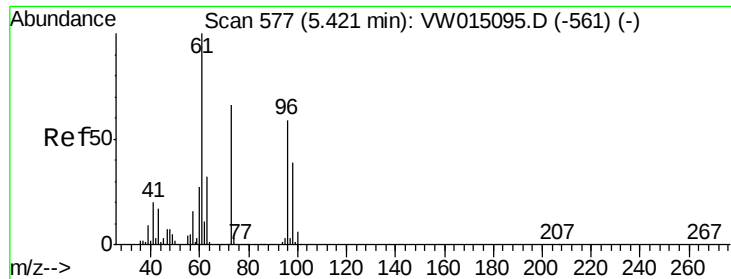
MMDadoda
3/11/2020 3:24:18 PM



#18
Methyl Acetate
Concen: 5.684 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	Ratio	Resp	Lower	Upper
43	100			
74	21.8	15.8	23.6	





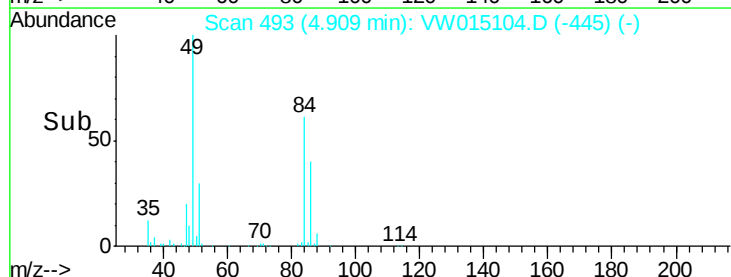
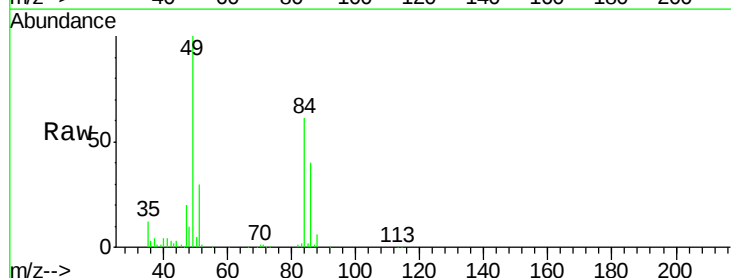
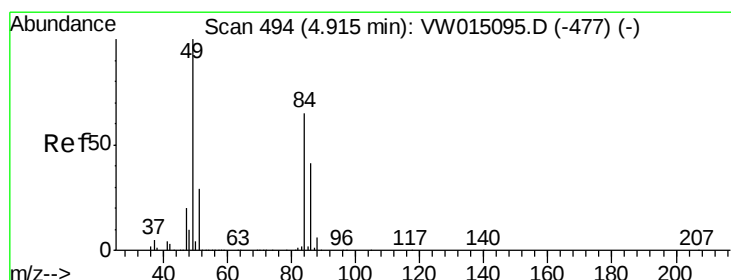
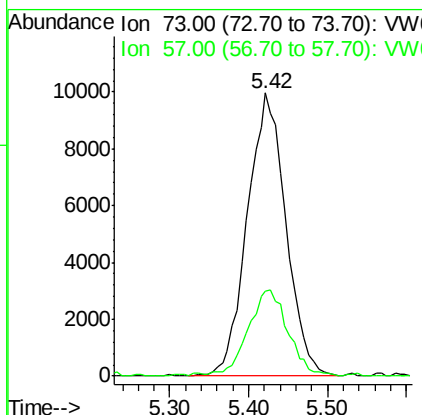
#19
Methvl tert-butvl Ether
Concen: 5.355 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

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

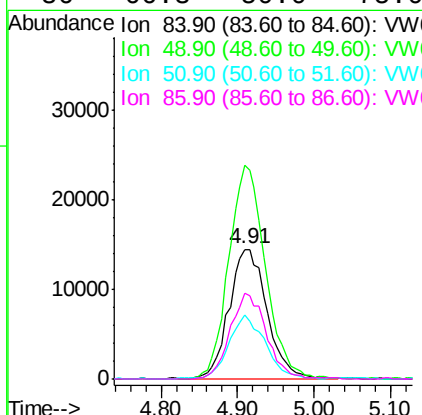
Manual Integrations
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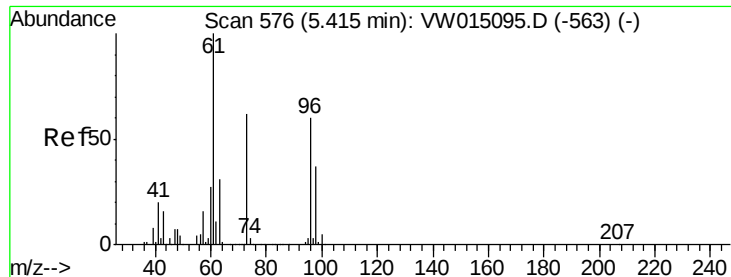
MMDadoda
3/11/2020 3:24:18 PM



#20
Methylene Chloride
Concen: 8.252 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: 5.096 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

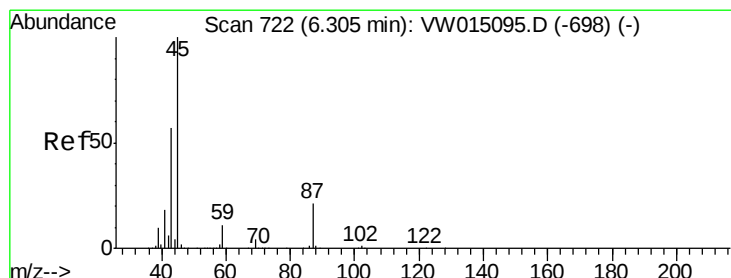
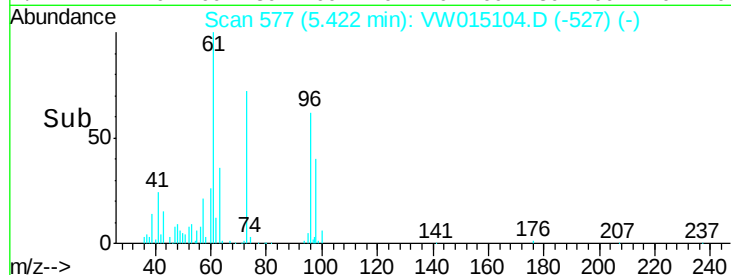
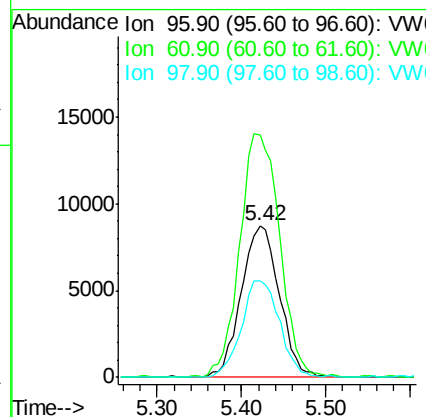
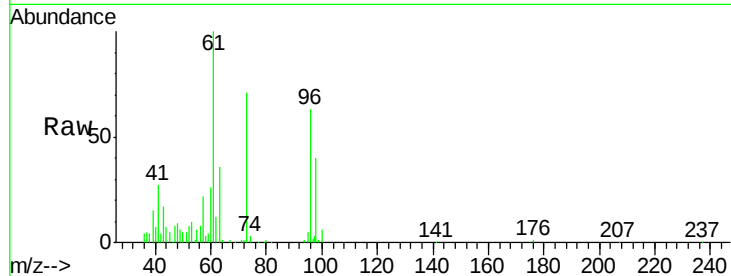
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	96	Resp:	26737
Ion	Ratio	Lower	Upper
96	100		
61	159.7	132.5	198.7
98	63.2	48.9	73.3

Manual Integrations
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#22

Diisopropyl ether

Concen: 4.862 ug/l

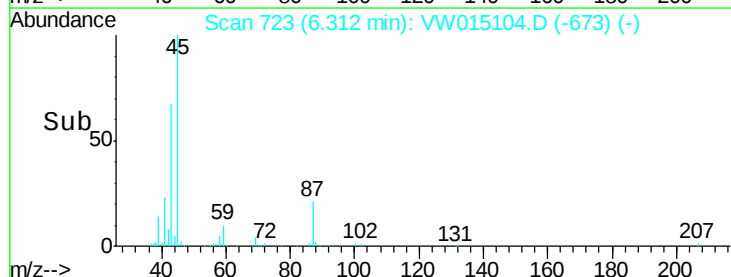
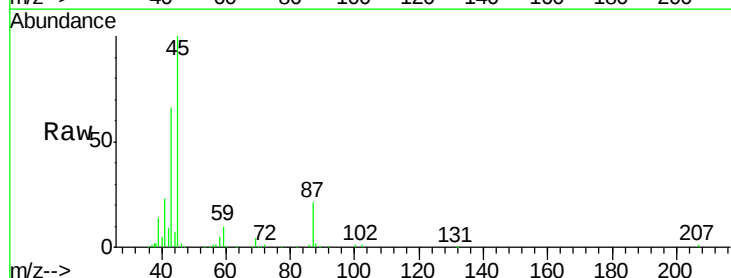
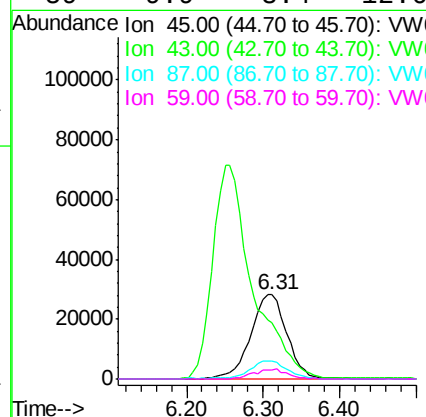
RT: 6.31 min Scan# 723

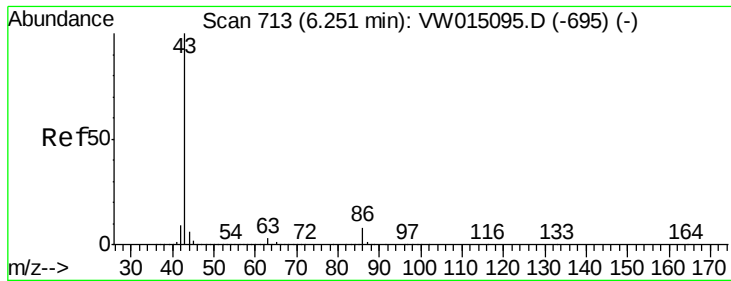
Delta R.T. 0.01 min

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





#23

Vinyl Acetate

Concen: 23.112 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

Tot Ion: 43 Resp: 259255

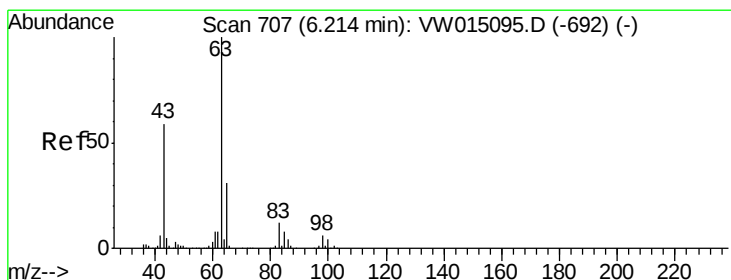
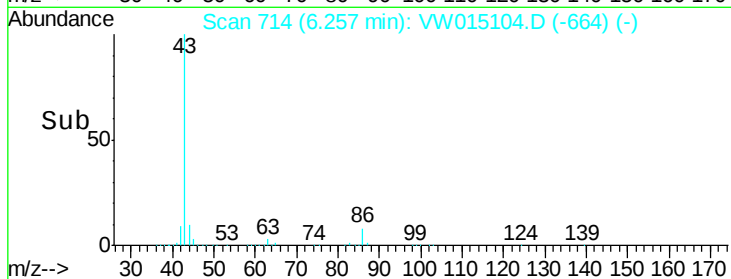
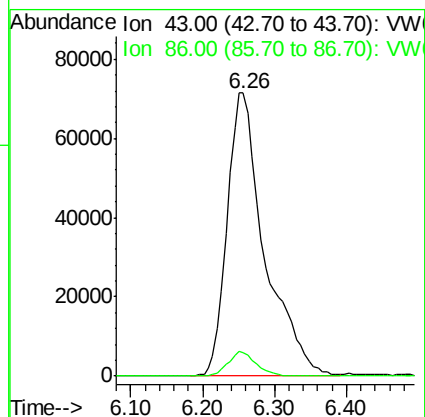
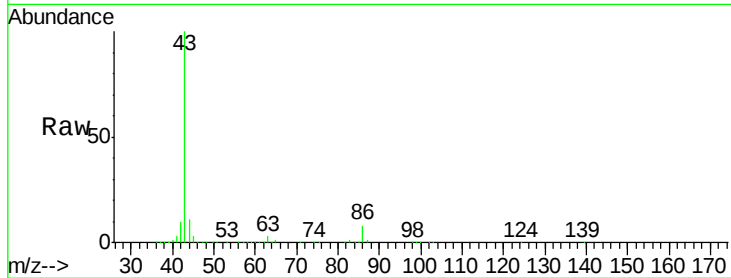
Ion Ratio Lower Upper

43 100

86 8.1 6.3 9.5

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 5.362 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

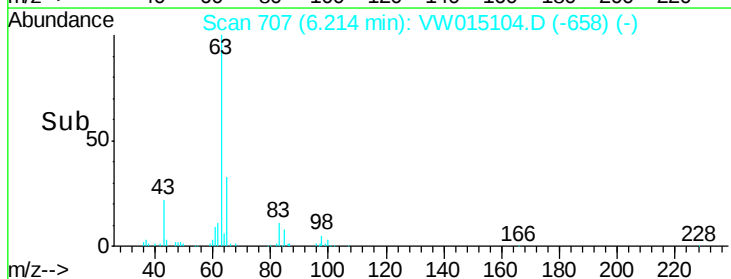
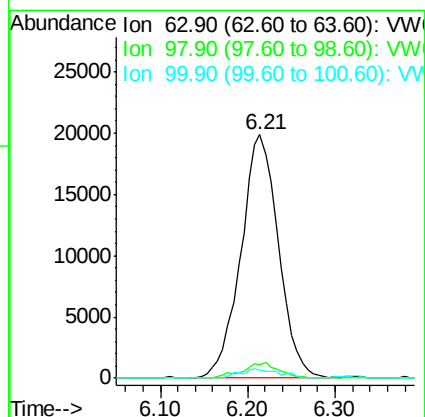
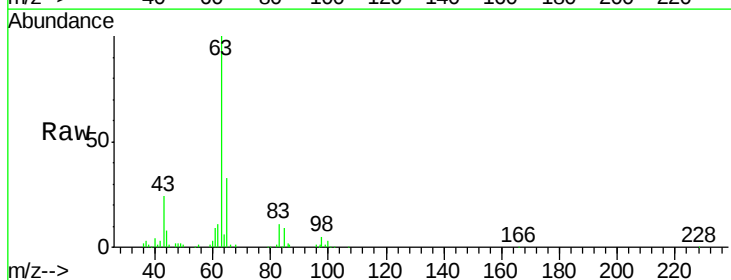
Tgt Ion: 63 Resp: 59422

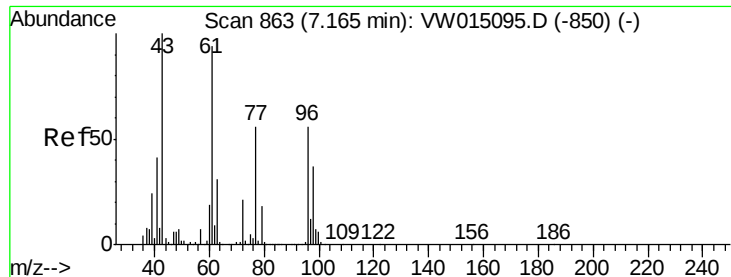
Ion Ratio Lower Upper

63 100

98 5.4 2.9 8.8

100 3.3 2.1 6.3





#25

2-Butanone

Concen: 27.427 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

Tot Ion: 43 Resp: 49040

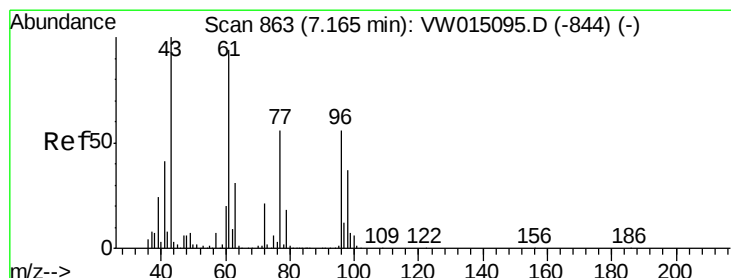
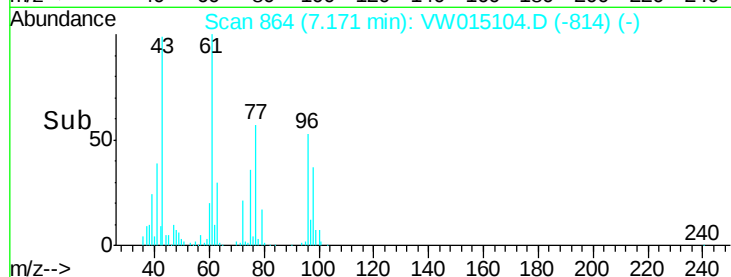
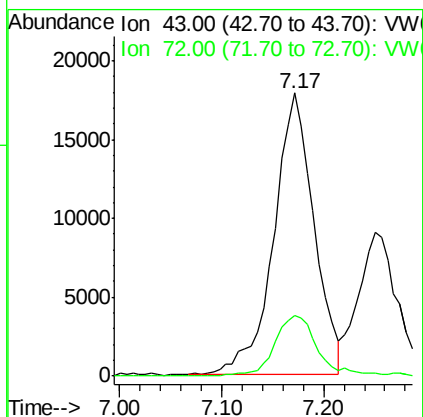
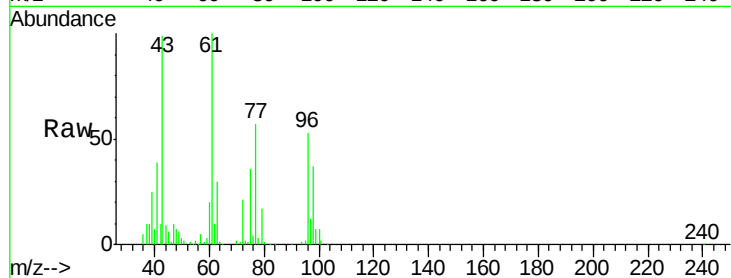
Ion Ratio Lower Upper

43 100

72 21.5 17.0 25.6

Manual Integrations
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#26

2,2-Dichloropropane

Concen: 5.933 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW015104.D

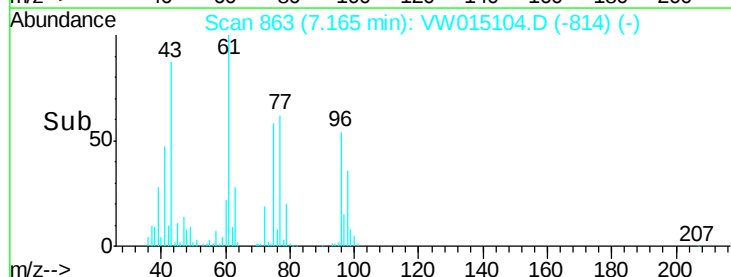
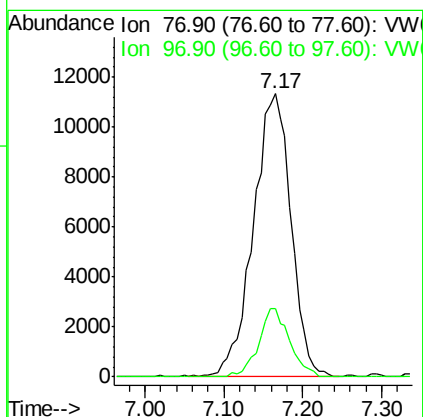
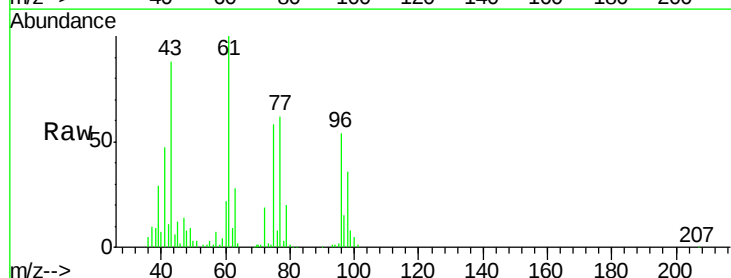
Acq: 09 Mar 2020 18:15

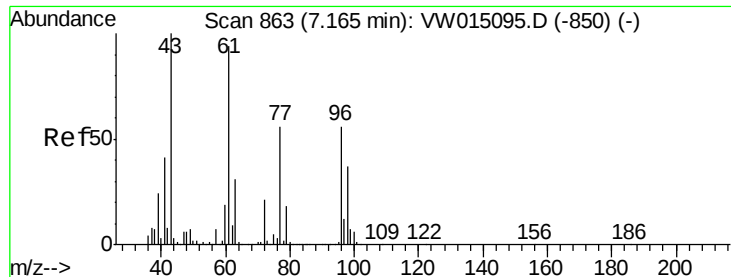
Tgt Ion: 77 Resp: 37602

Ion Ratio Lower Upper

77 100

97 19.7 10.6 31.8





#27

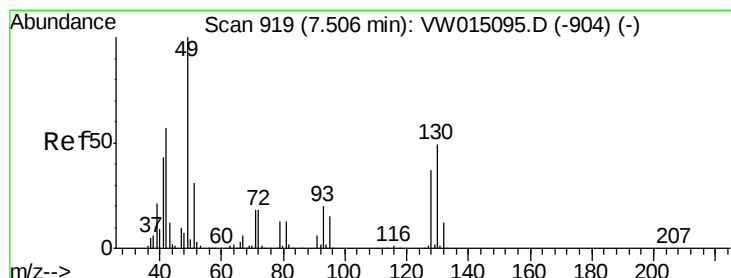
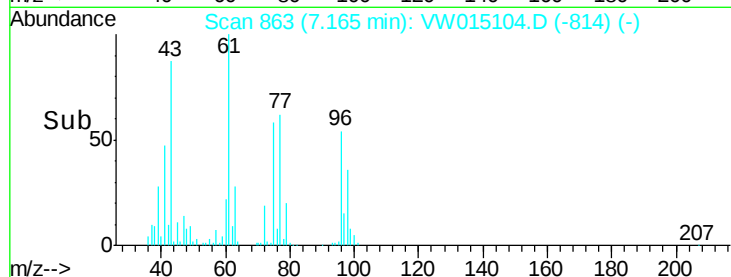
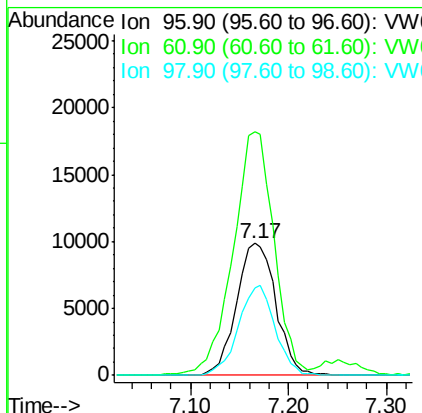
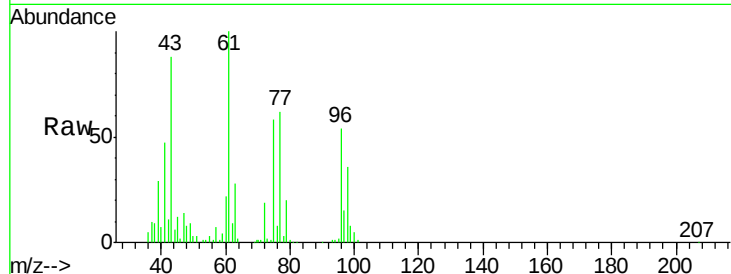
cis-1,2-Dichloroethene
Concen: 5.032 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	192.2	0.0	343.4
98	63.3	0.0	127.6

Manual Integrations
APPROVED

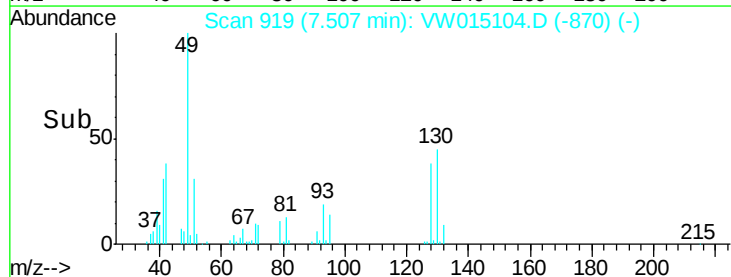
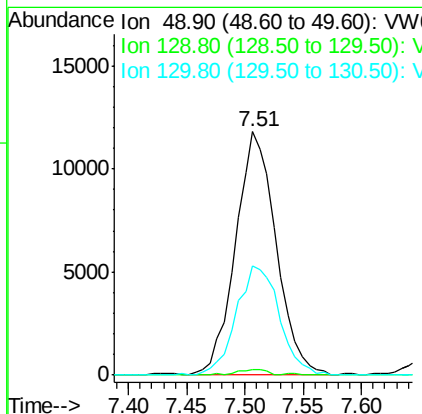
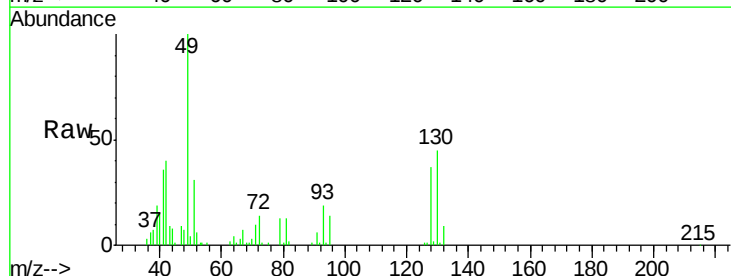
MMDadoda
3/11/2020 3:24:18 PM

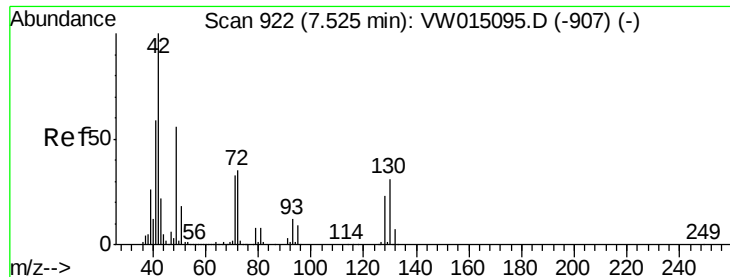


#28

Bromochloromethane
Concen: 5.412 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	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.0
130	47.5	39.8	59.6





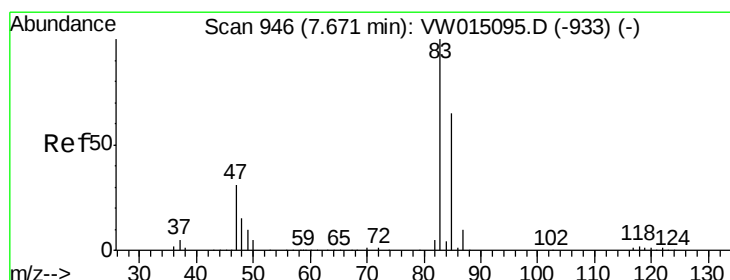
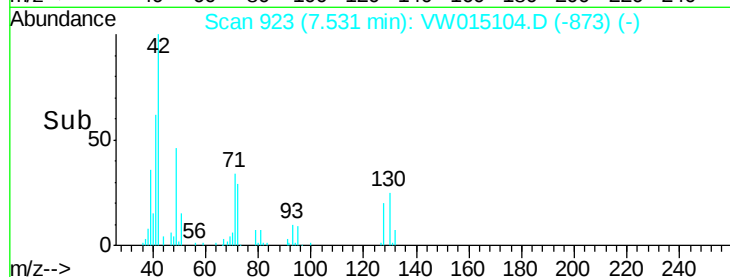
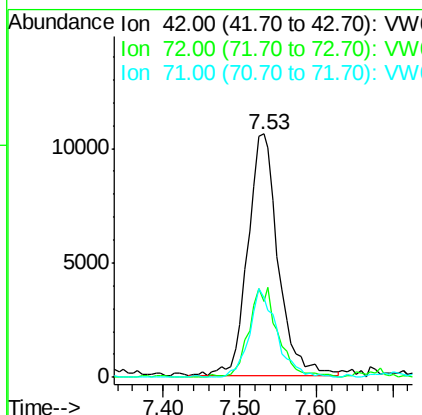
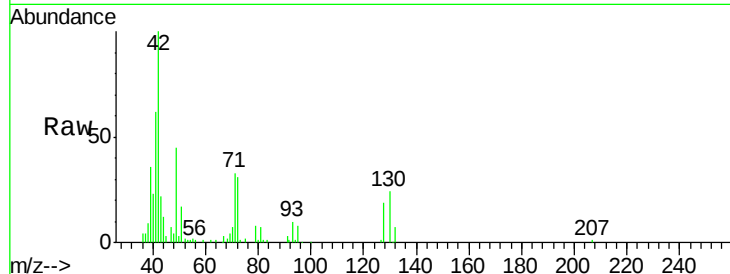
#29
Tetrahydrofuran
Concen: 25.934 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.9	27.8	41.6
71	33.6	26.4	39.6

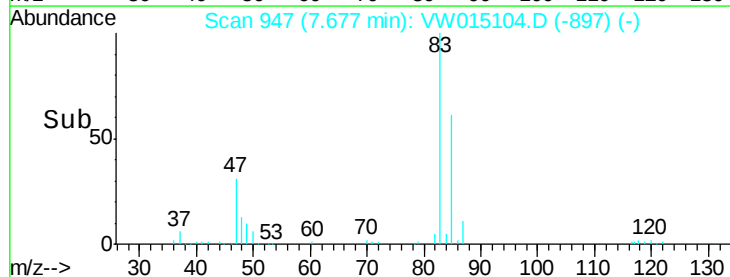
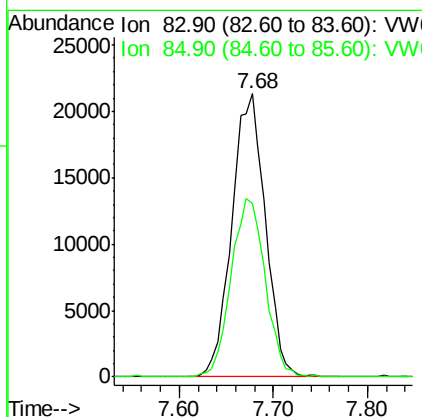
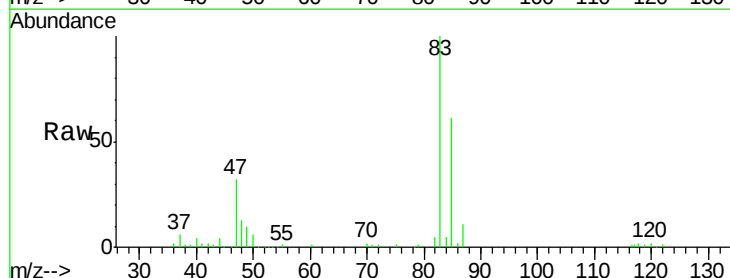
Manual Integrations
APPROVED

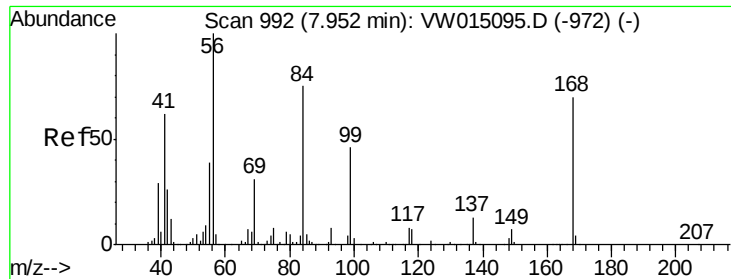
MMDadoda
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#30
Chloroform
Concen: 5.335 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.9	77.9





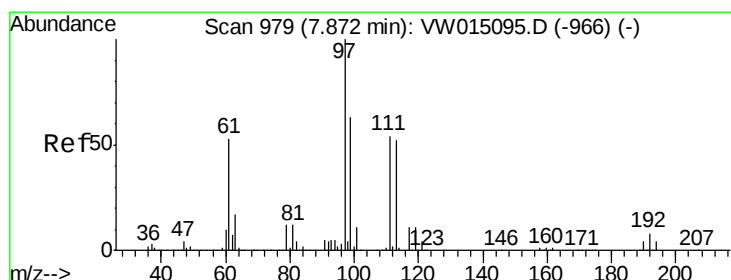
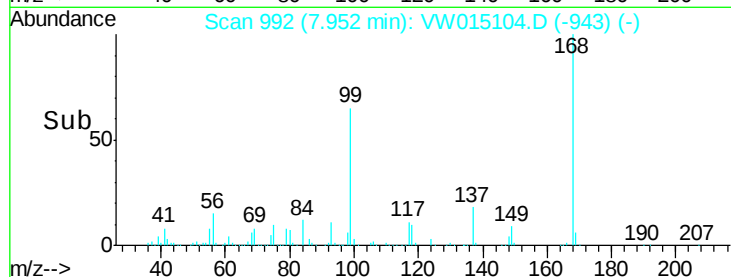
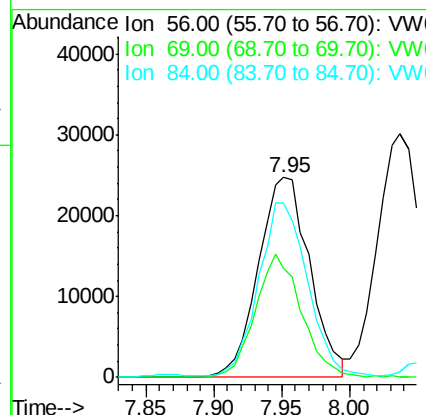
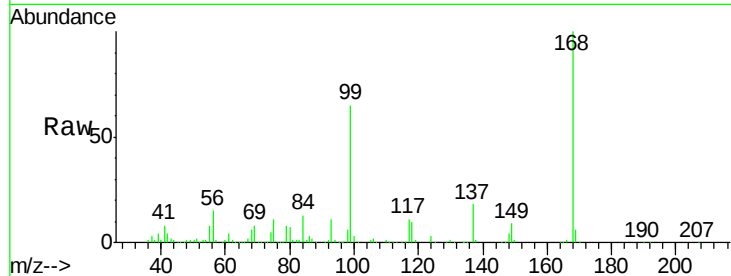
#31
Cyclohexane
Concen: 5.716 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Lower	Upper
56	100		
69	54.7	24.6	37.0#
84	86.9	59.9	89.9

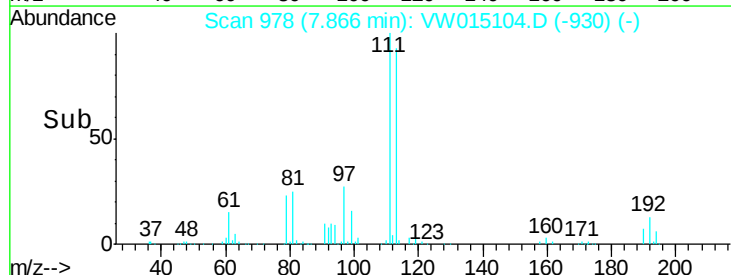
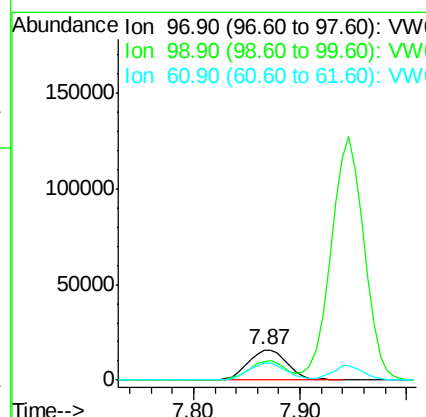
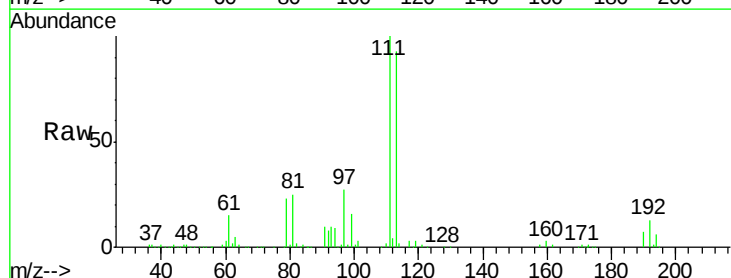
Manual Integrations
APPROVED

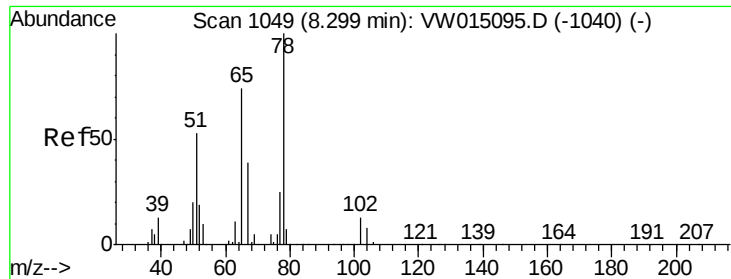
MMDadoda
3/11/2020 3:24:18 PM



#32
1,1,1-Trichloroethane
Concen: 5.374 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	Ratio	Lower	Upper
97	100		
99	58.9	51.3	76.9
61	55.0	44.0	66.0





#33

1,2-Dichloroethane-d4

Concen: 55.330 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

Tot Ion: 65 Resp: 316438

Ion Ratio Lower Upper

65 100

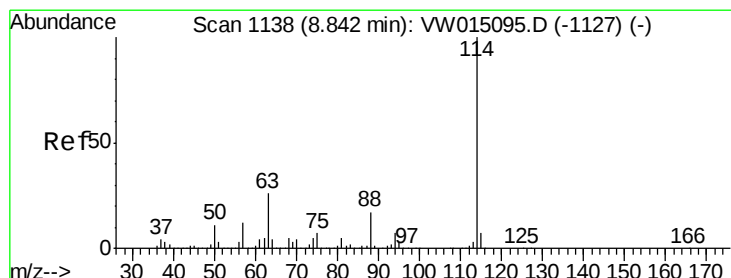
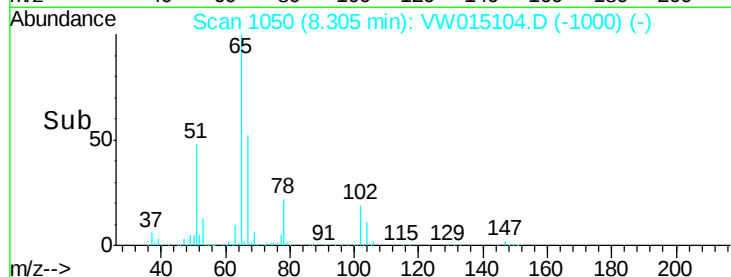
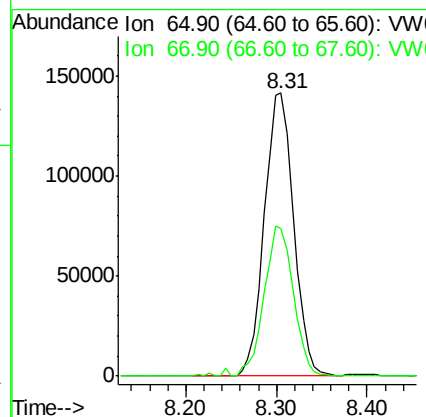
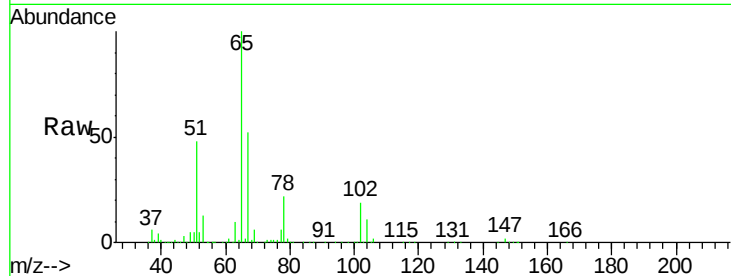
67 53.0 0.0 105.0

Manual Integrations

APPROVED

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

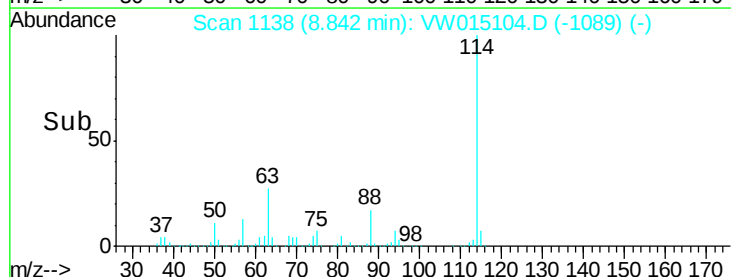
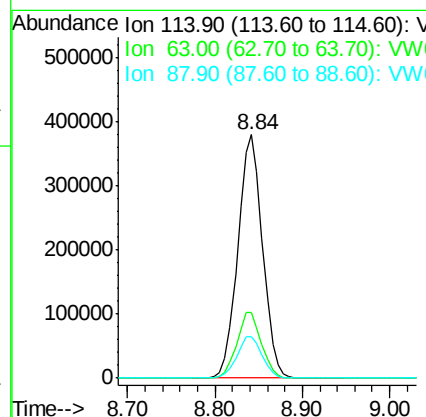
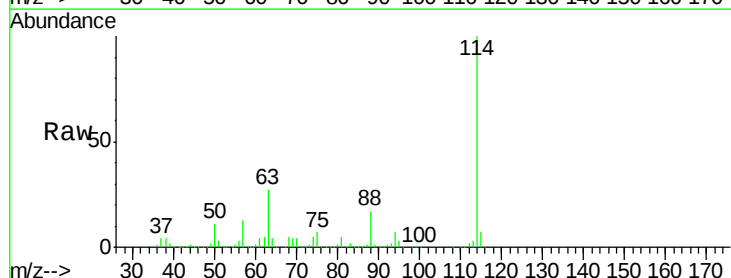
Tgt Ion: 114 Resp: 743642

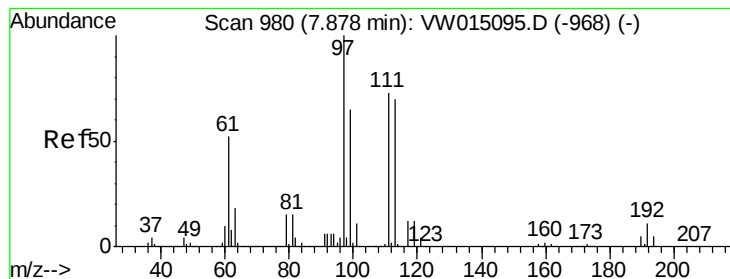
Ion Ratio Lower Upper

114 100

63 26.8 0.0 52.0

88 17.2 0.0 34.2





#35

Dibromofluoromethane

Concen: 52.097 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

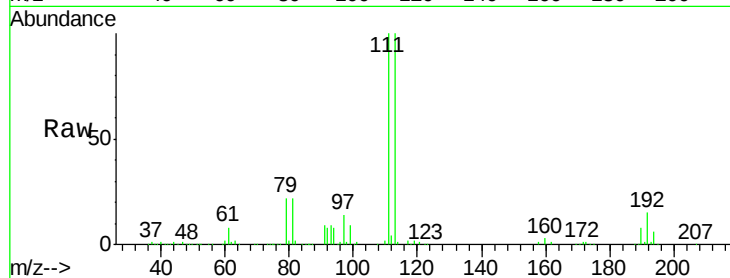
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	113	Resp:	231942
Ion Ratio	Lower	Upper	
113	100		
111	104.2	83.6	125.4
192	15.7	12.4	18.6

Manual Integrations
APPROVED

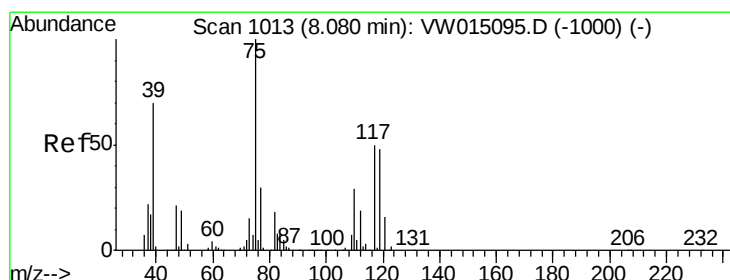
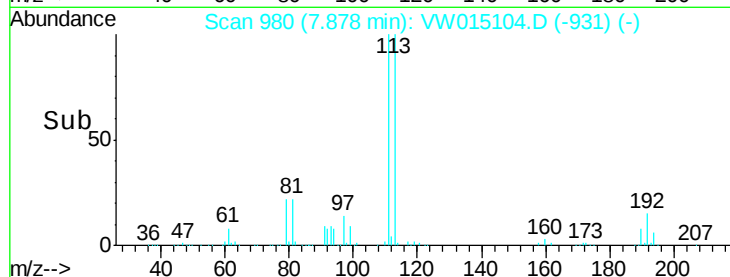
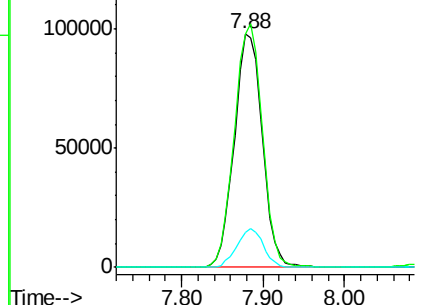
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Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.095 ug/l

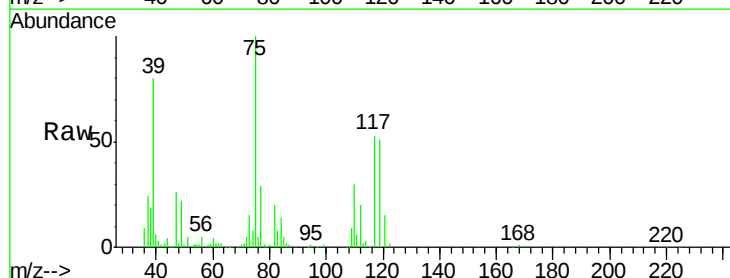
RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

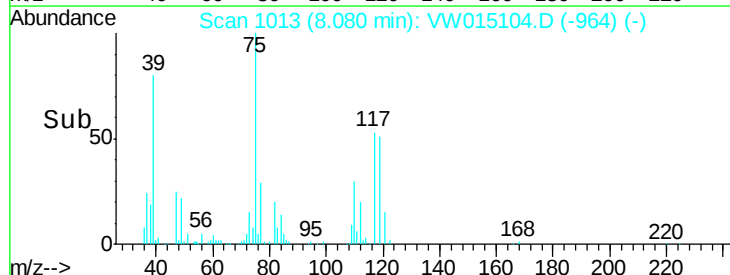
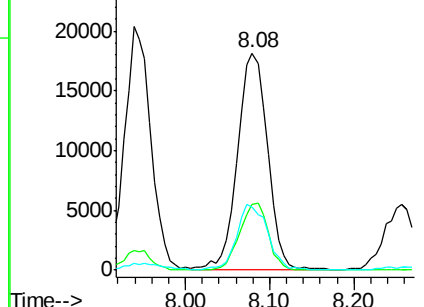
Tgt Ion:	75	Resp:	43938
Ion Ratio	Lower	Upper	
75	100		
110	29.1	14.7	44.1
77	30.8	24.2	36.4

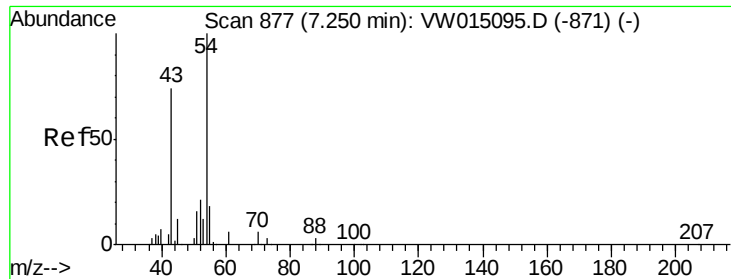


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





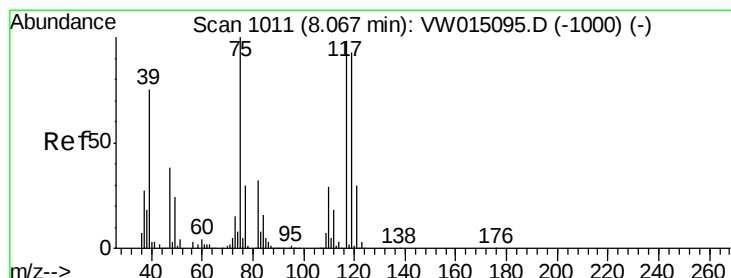
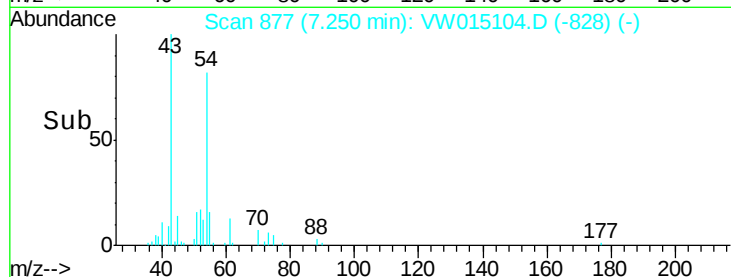
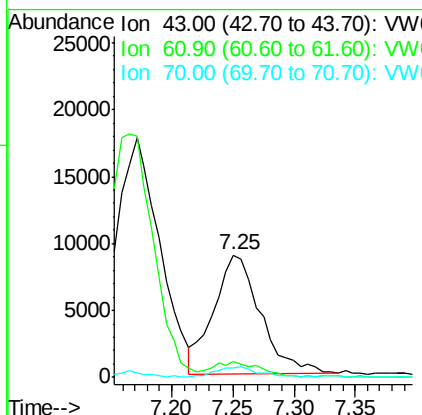
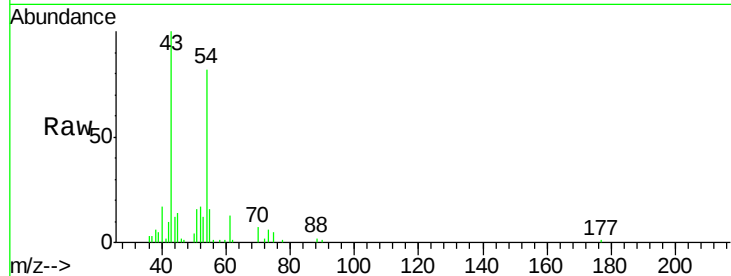
#37
Ethyl Acetate
Concen: 5.499 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Resp	Lower	Upper
43	100	23637		
61	12.2		9.6	14.4
70	8.7		6.5	9.7

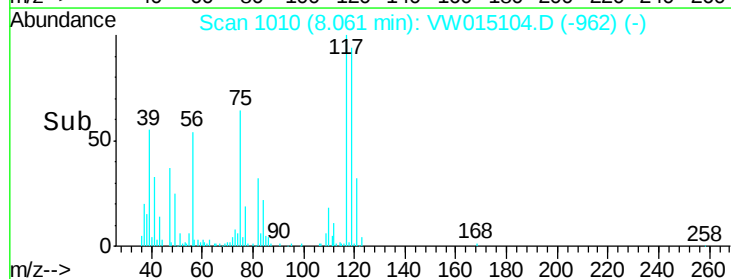
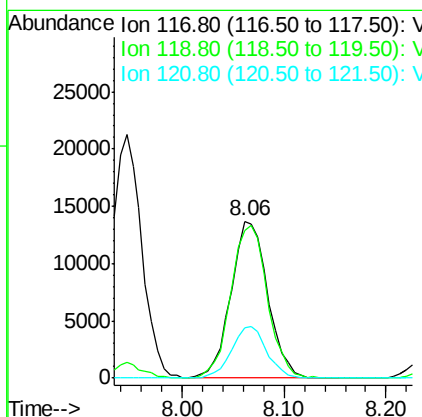
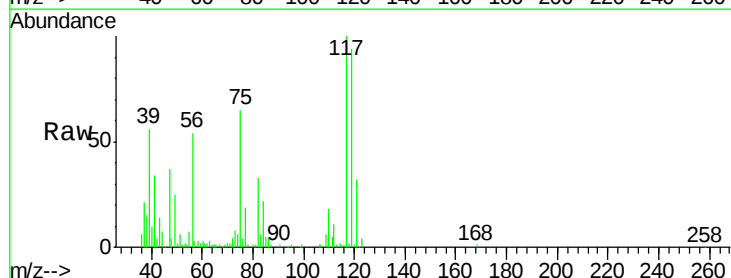
Manual Integrations
APPROVED

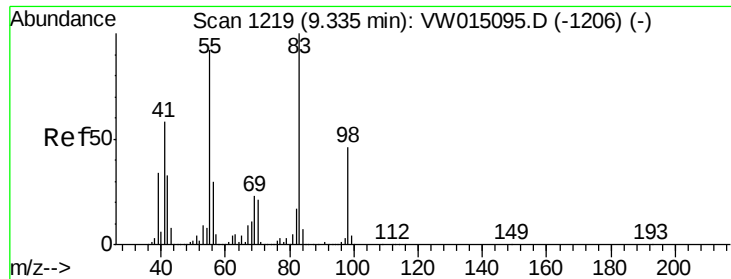
MMDadoda
3/11/2020 3:24:18 PM



#38
Carbon Tetrachloride
Concen: 4.872 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	Ratio	Resp	Lower	Upper
117	100	34200		
119	93.8		75.8	113.8
121	32.1		24.5	36.7





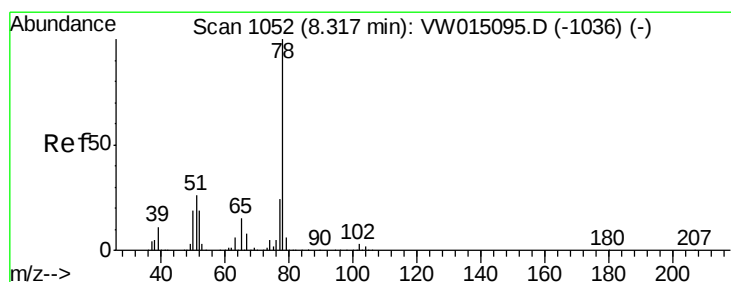
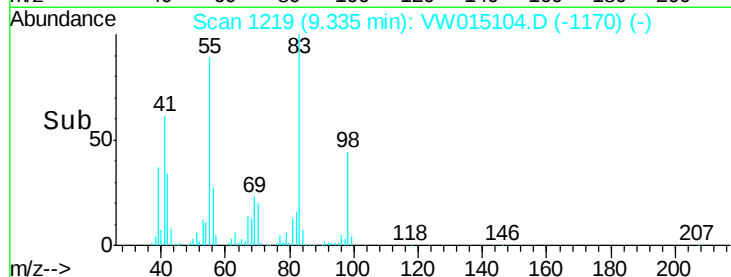
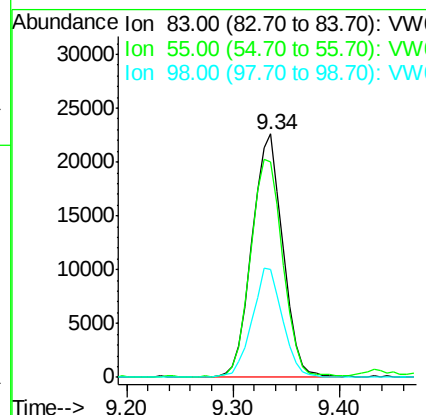
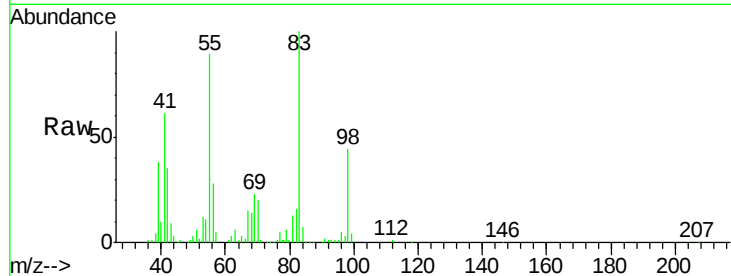
#39
Methvlcvclohexane
Concen: 4.691 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	88.8	73.5	110.3
98	44.1	37.2	55.8

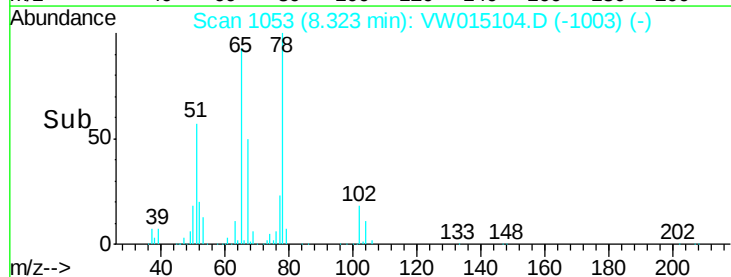
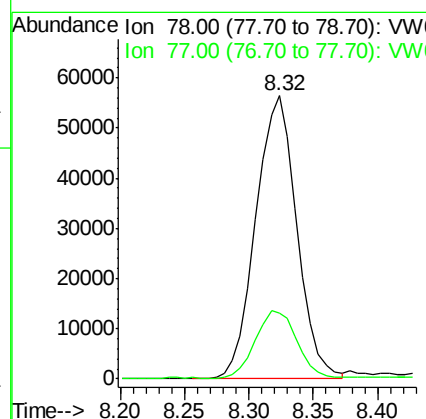
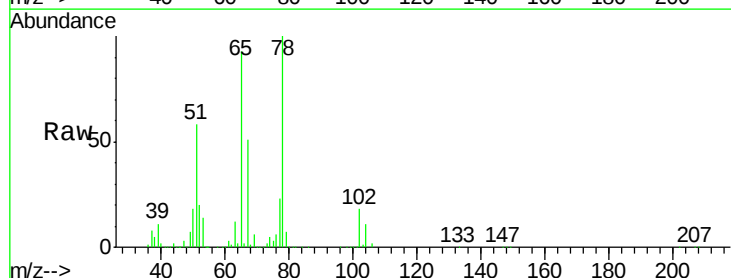
Manual Integrations
APPROVED

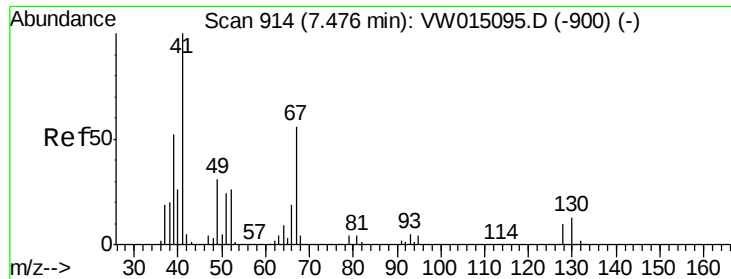
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#40
Benzene
Concen: 5.199 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.5	29.3





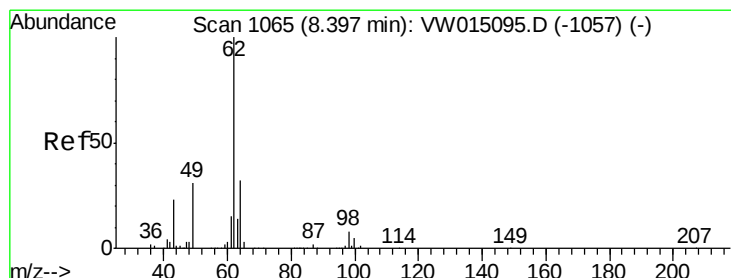
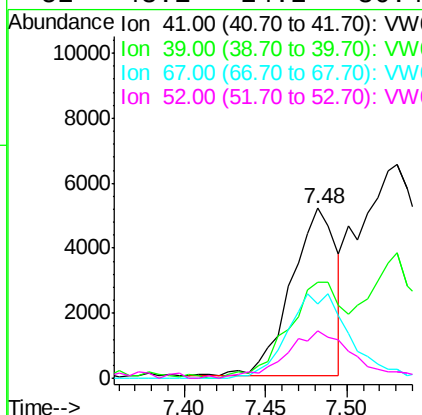
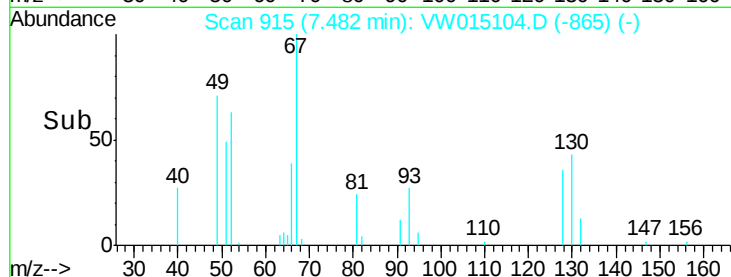
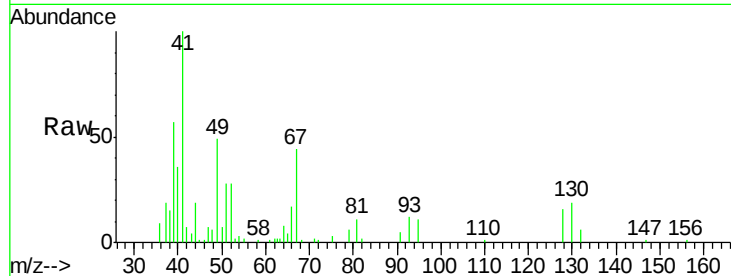
#41
Methacrylonitrile
Concen: 4.378 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot 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

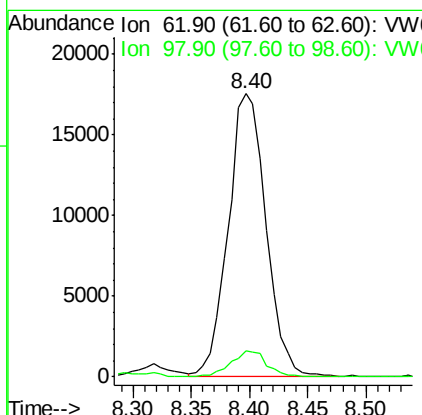
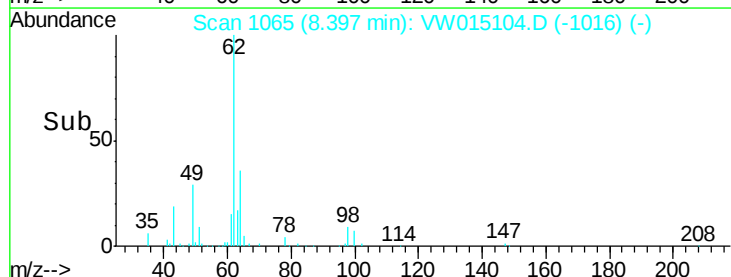
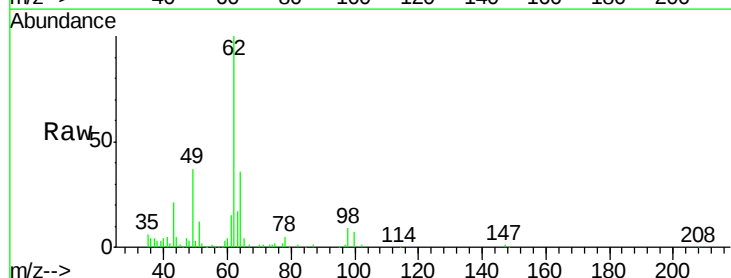
Manual Integrations
APPROVED

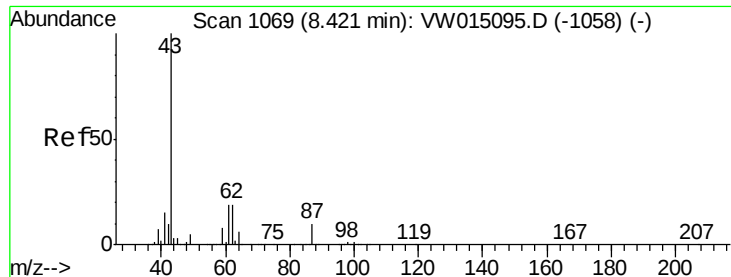
MMDadoda
3/11/2020 3:24:18 PM



#42
1,2-Dichloroethane
Concen: 5.437 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	Ratio	Lower	Upper
62	100		
98	8.8	0.0	16.0





#43

Isopropyl Acetate

Concen: 5.381 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

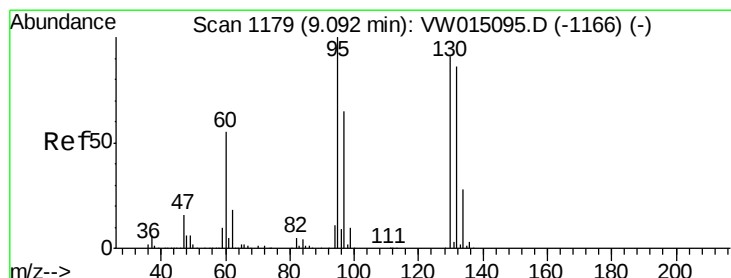
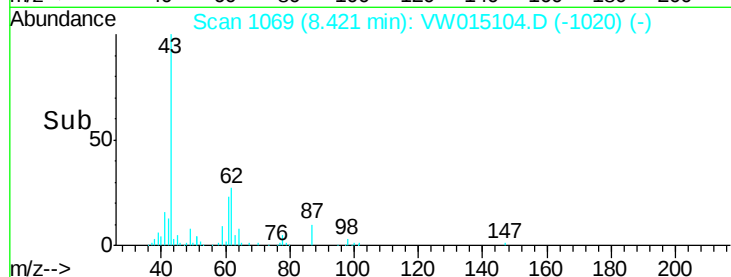
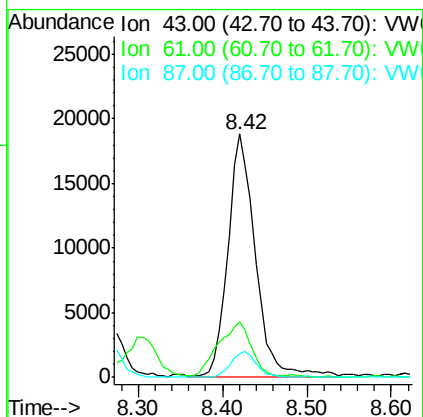
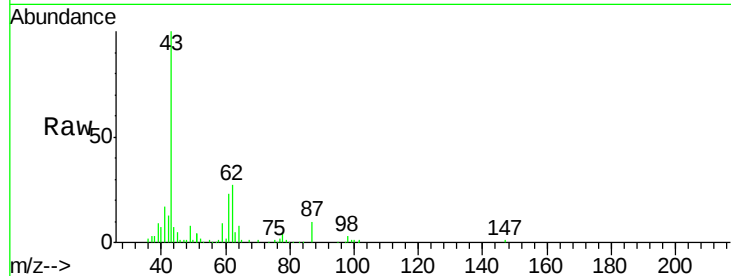
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	43	Resp:	41462
Ion	Ratio	Lower	Upper
43	100		
61	26.4	21.8	32.8
87	9.8	8.0	12.0

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#44

Trichloroethene

Concen: 4.893 ug/l

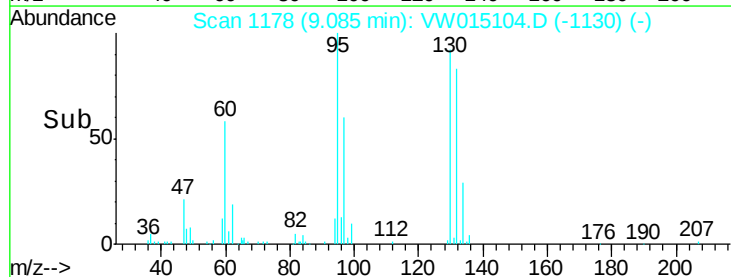
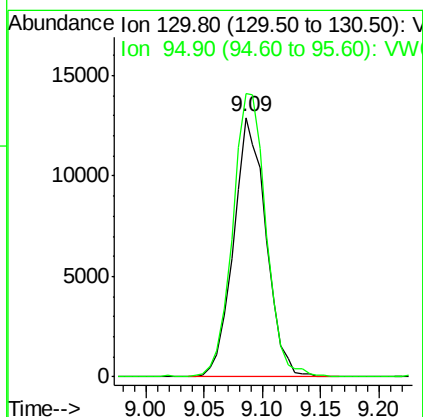
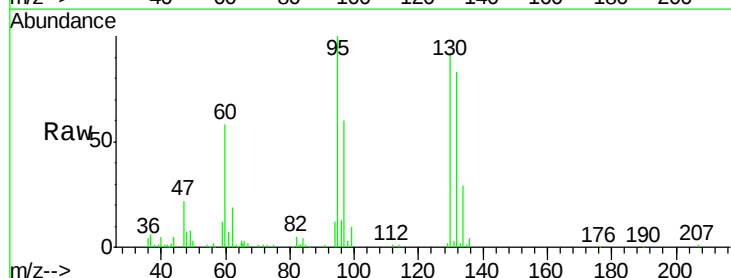
RT: 9.09 min Scan# 1178

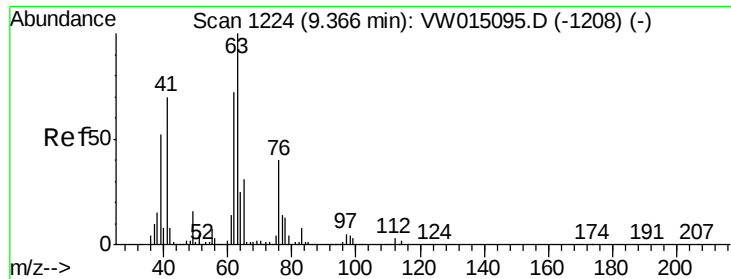
Delta R.T. -0.01 min

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





#45

1,2-Dichloropropane

Concen: 5.230 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

Tot Ion: 63 Resp: 33758

Ion Ratio Lower Upper

63 100

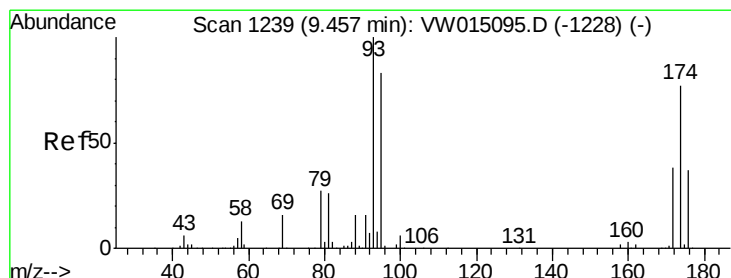
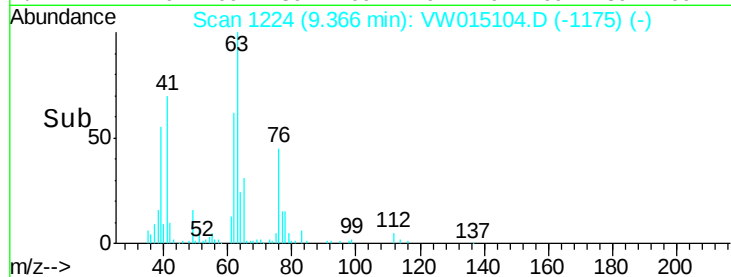
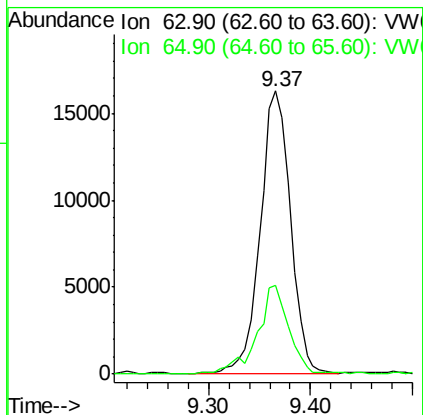
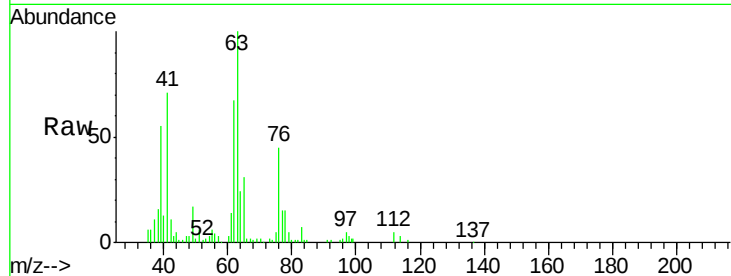
65 31.4 24.6 36.8

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#46

Dibromomethane

Concen: 5.177 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

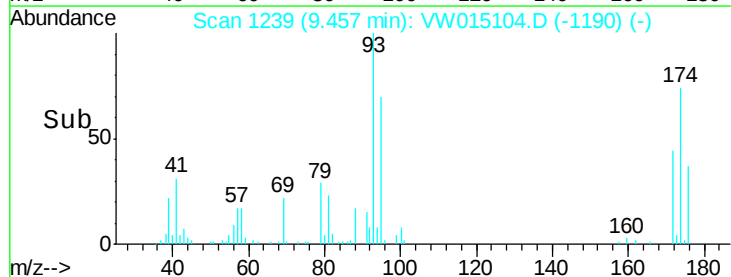
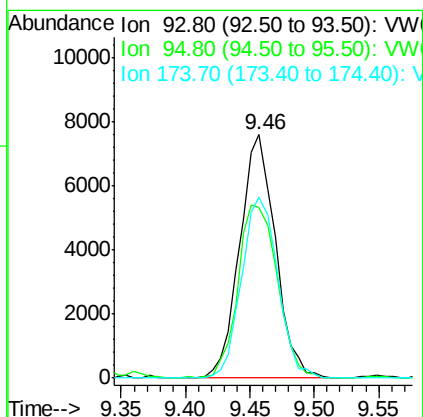
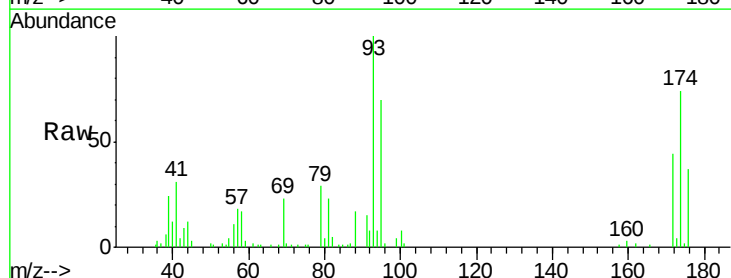
Tgt Ion: 93 Resp: 14528

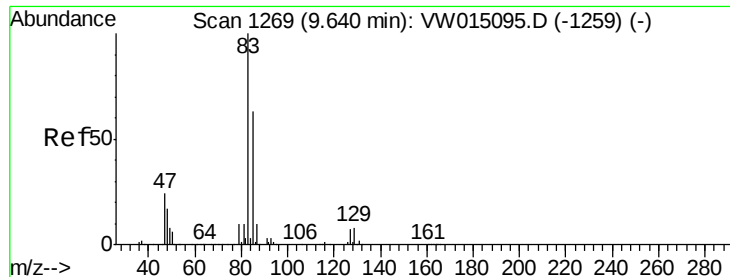
Ion Ratio Lower Upper

93 100

95 79.0 66.6 100.0

174 75.4 60.6 91.0





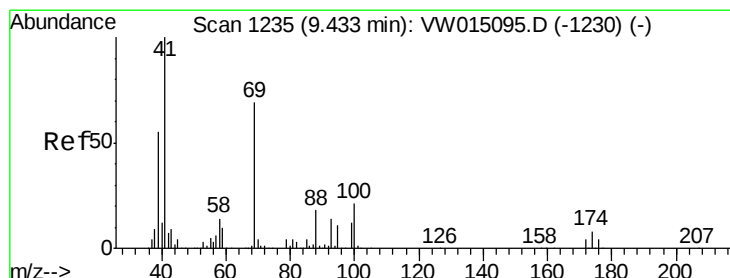
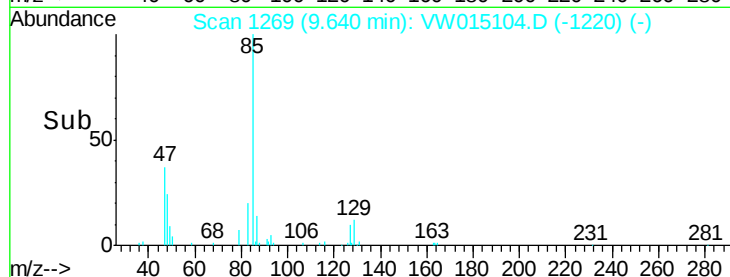
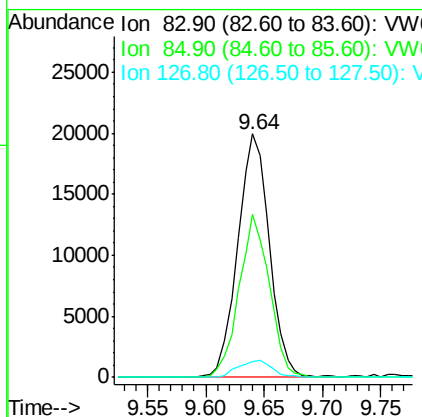
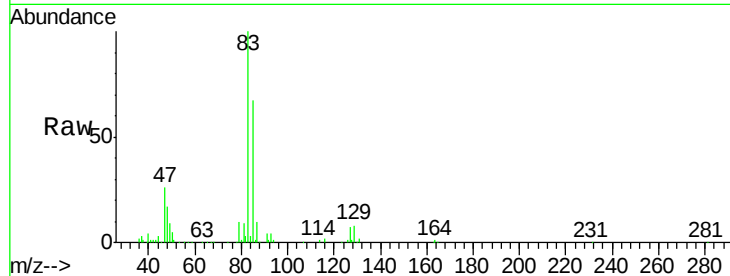
#47
Bromodichloromethane
Concen: 5.051 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

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

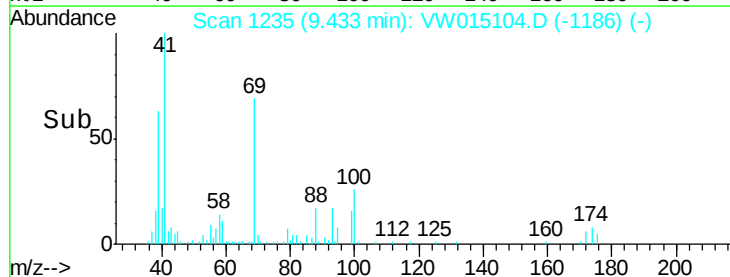
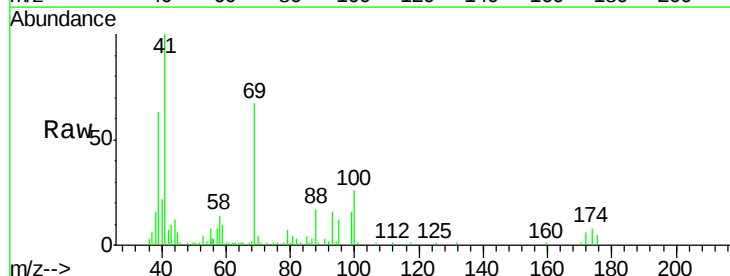
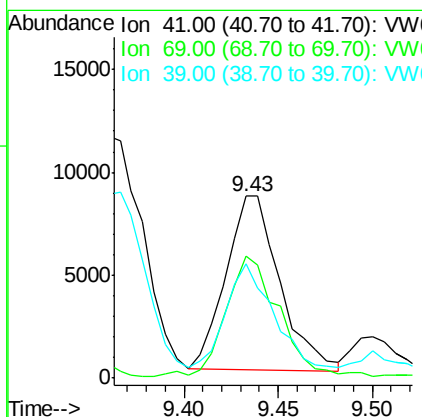
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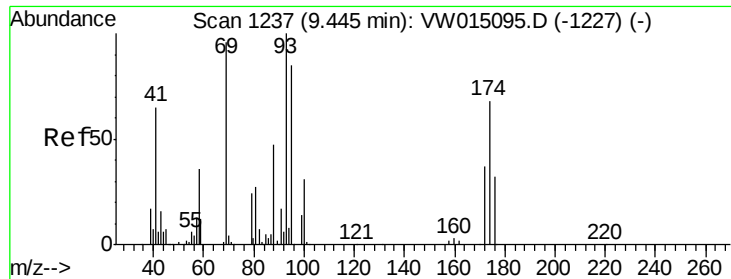
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#48
Methyl methacrylate
Concen: 4.720 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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





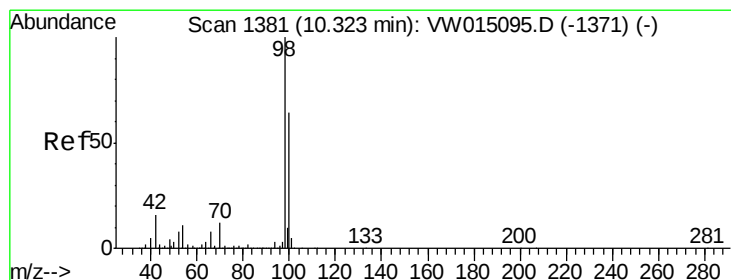
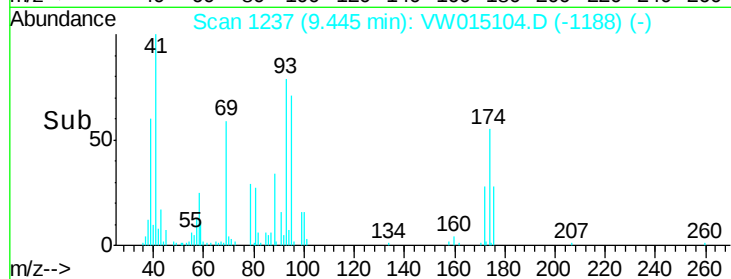
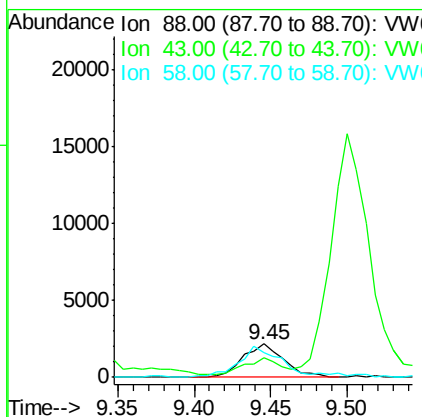
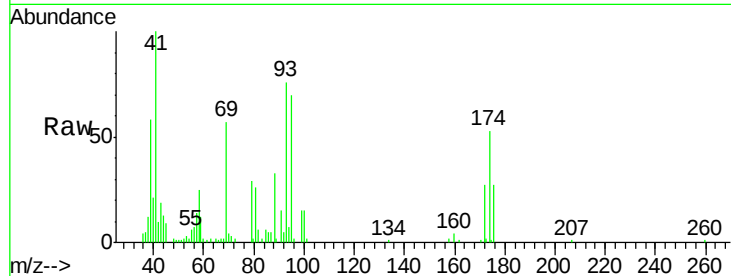
#49
1,4-Dioxane
Concen: 94.910 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

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

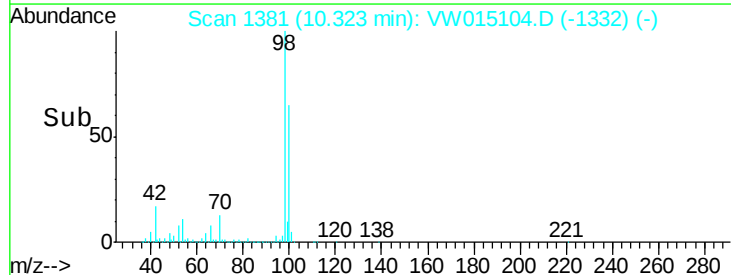
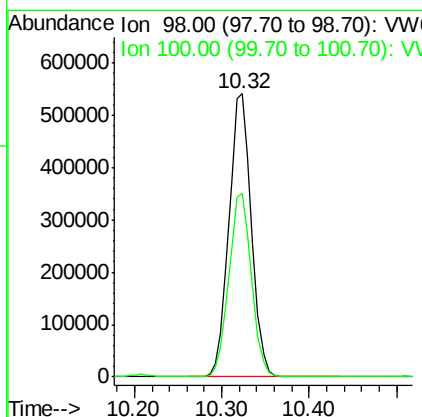
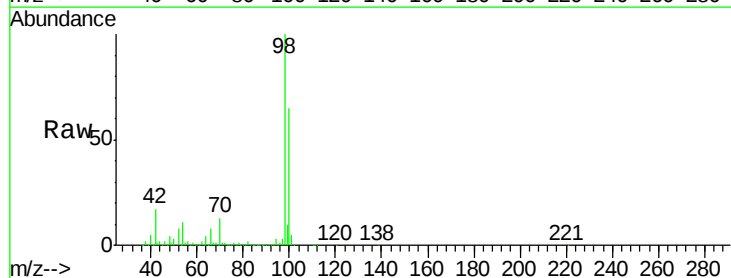
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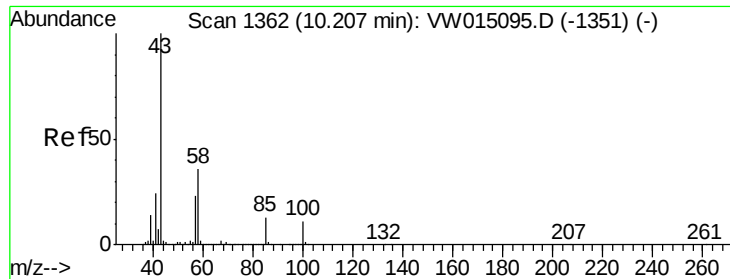
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#50
Toluene-d8
Concen: 51.747 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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





#51

4-Methyl-2-Pentanone

Concen: 24.266 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

Tot Ion: 43 Resp: 103280

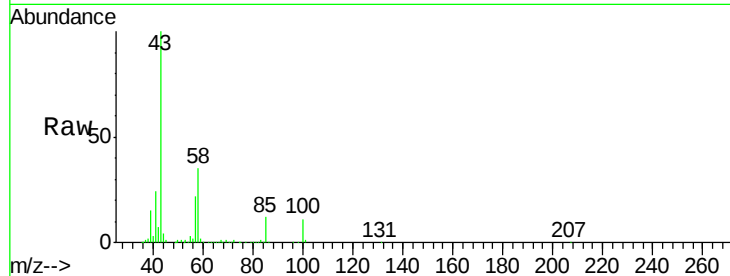
Ion Ratio Lower Upper

43 100

58 34.5 28.0 42.0

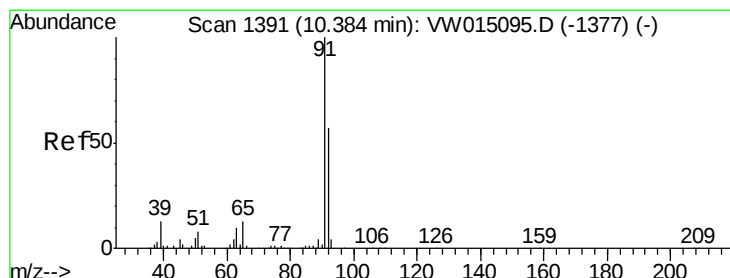
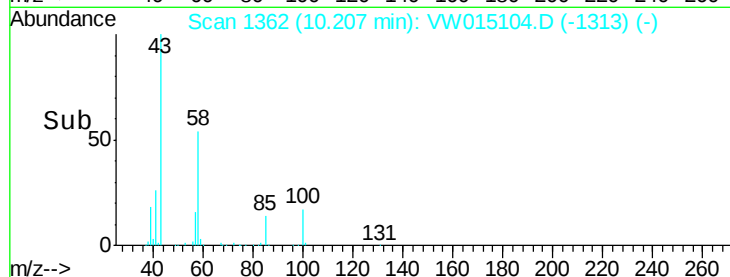
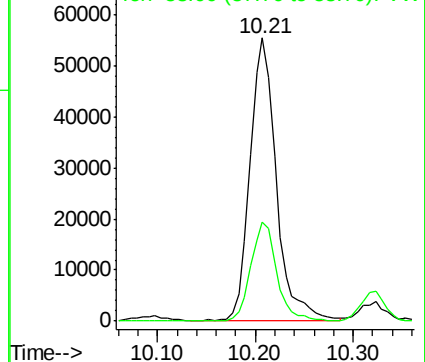
Manual Integrations
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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 5.032 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW015104.D

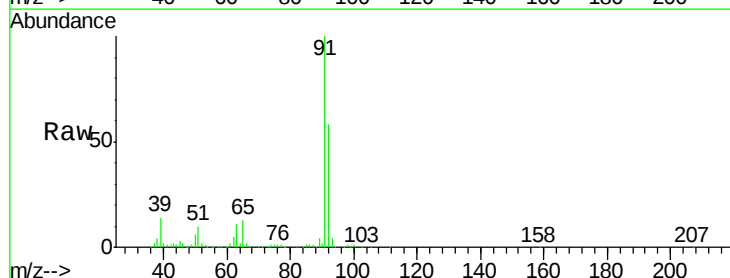
Acq: 09 Mar 2020 18:15

Tgt Ion: 92 Resp: 69280

Ion Ratio Lower Upper

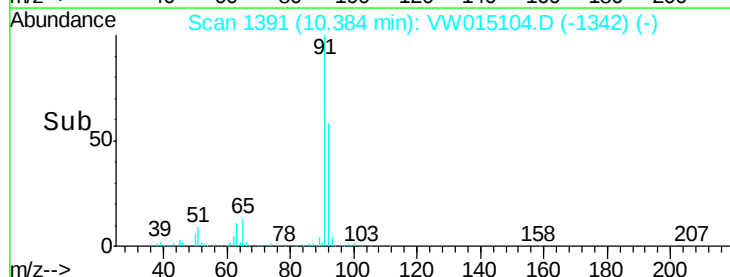
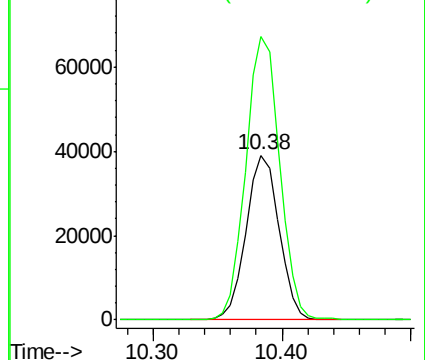
92 100

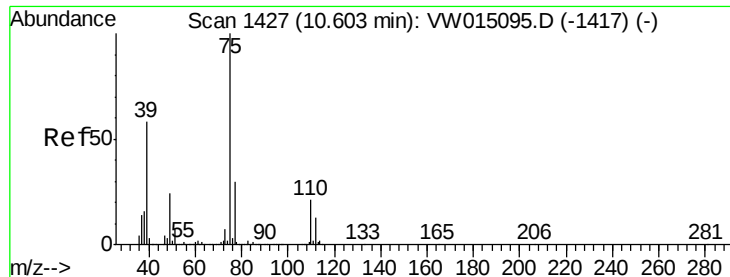
91 176.2 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 4.762 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

Tot Ion: 75 Resp: 35098

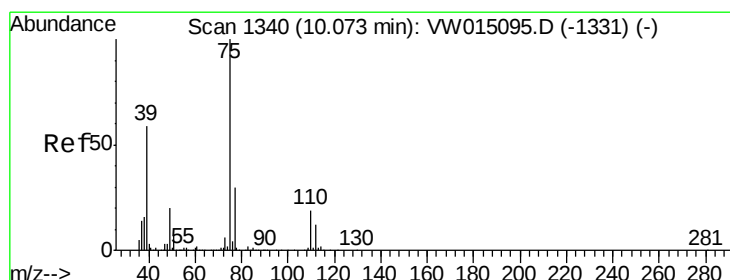
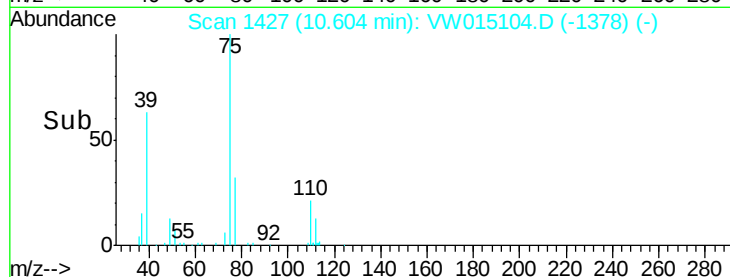
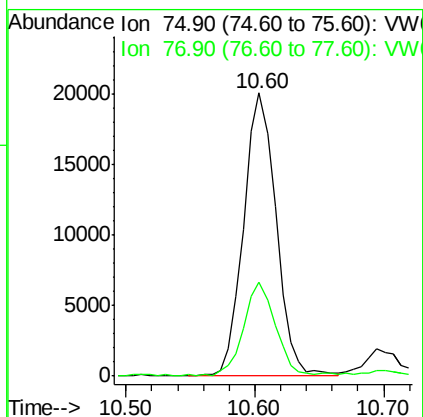
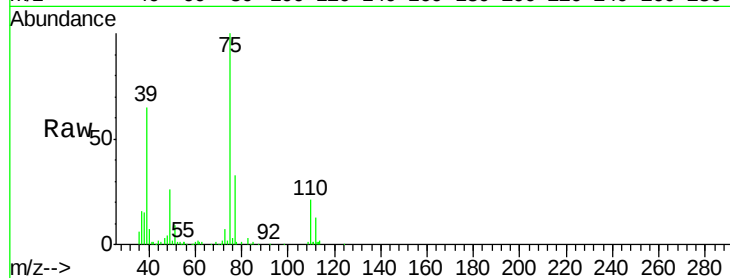
Ion Ratio Lower Upper

75 100

77 32.8 24.4 36.6

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#54

cis-1,3-Dichloropropene

Concen: 4.703 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

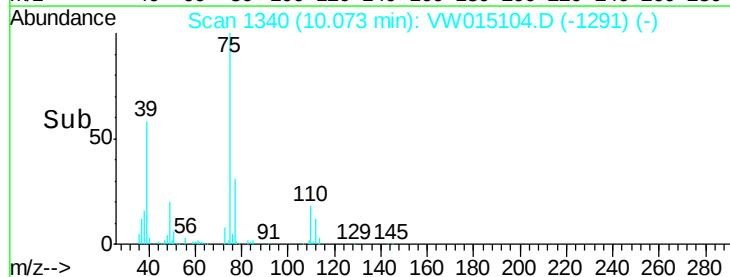
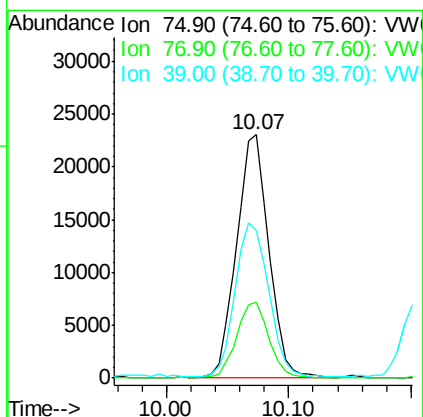
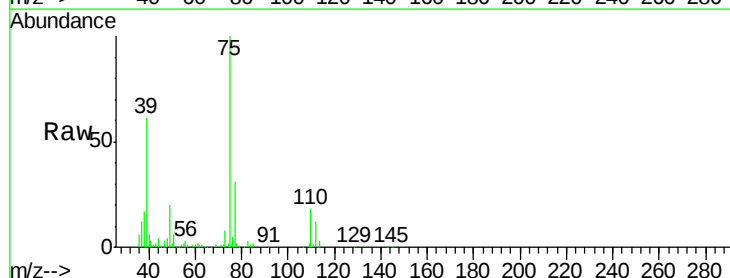
Tgt Ion: 75 Resp: 42231

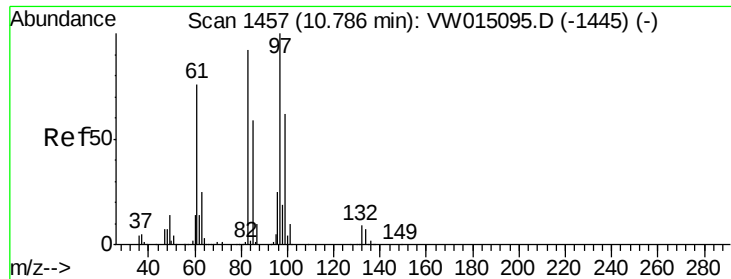
Ion Ratio Lower Upper

75 100

77 31.4 24.3 36.5

39 60.0 47.0 70.6





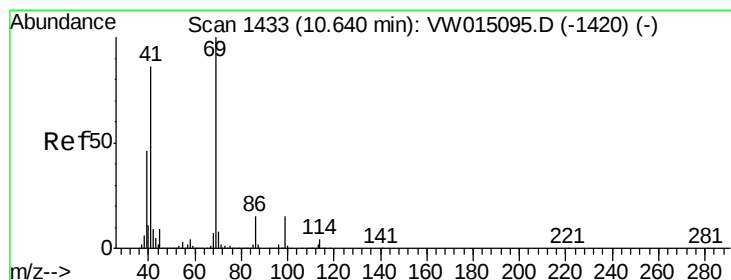
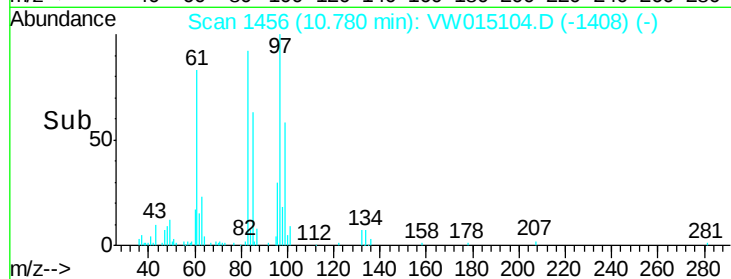
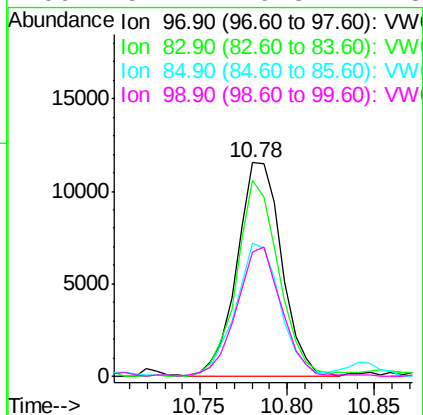
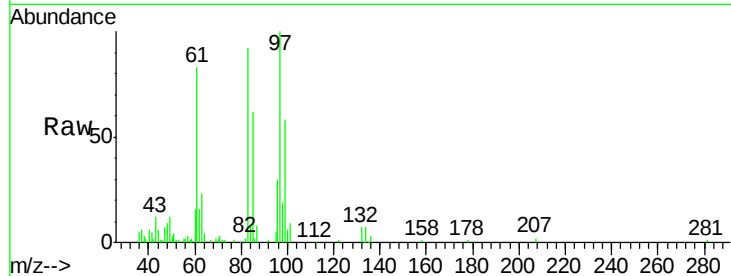
#55
 1,1,2-Trichloroethane
 Concen: 5.339 ug/l
 RT: 10.78 min Scan# 1456
 Delta R.T. -0.01 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

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

Tot 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

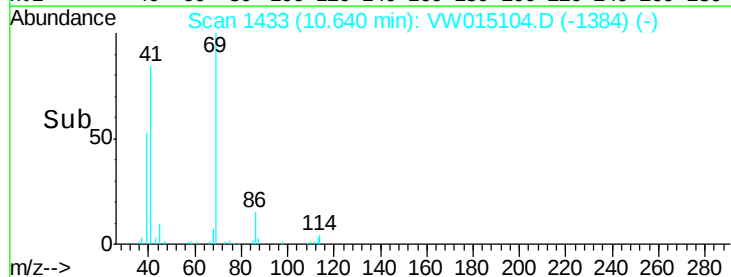
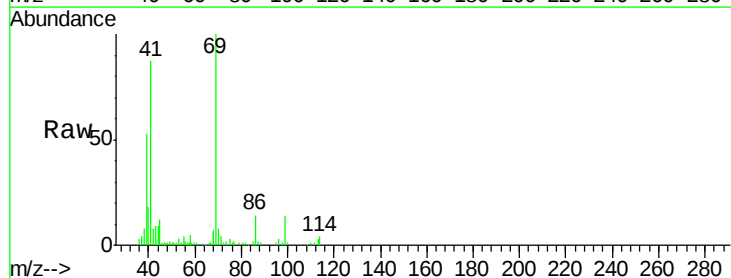
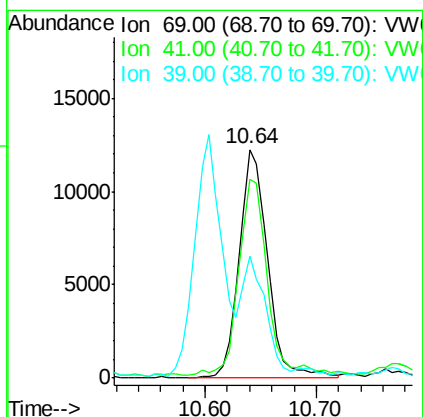
Manual Integrations
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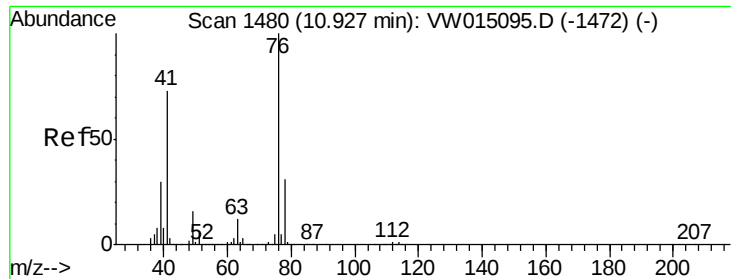
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#56
 Ethyl methacrylate
 Concen: 4.400 ug/l
 RT: 10.64 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

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: 5.032 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

Tot Ion: 76 Resp: 36838

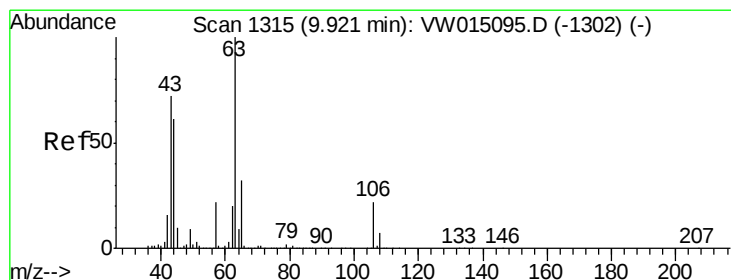
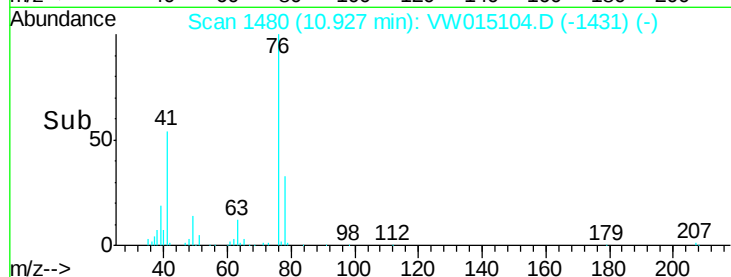
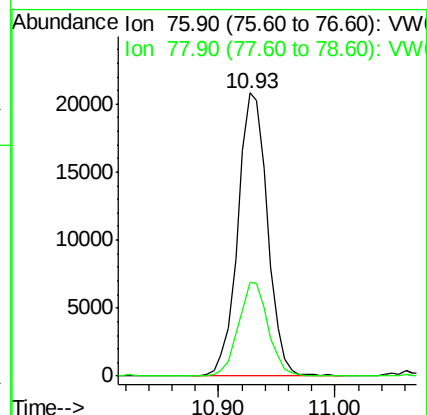
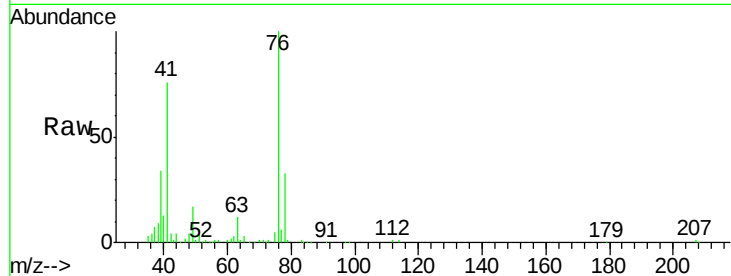
Ion Ratio Lower Upper

76 100

78 33.4 25.3 37.9

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 22.686 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW015104.D

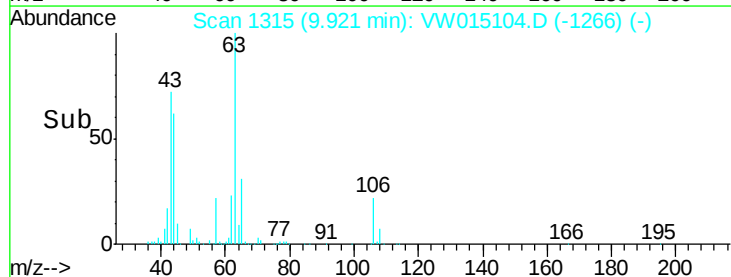
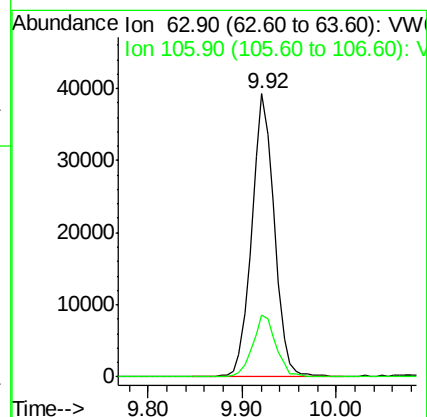
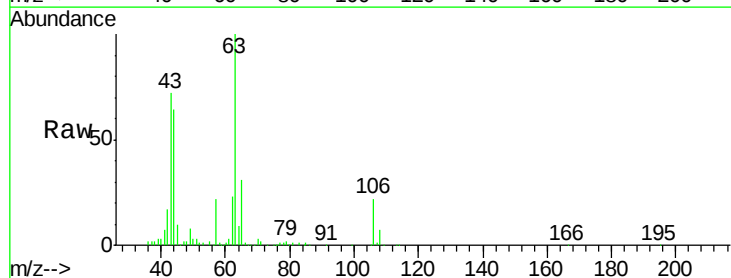
Acq: 09 Mar 2020 18:15

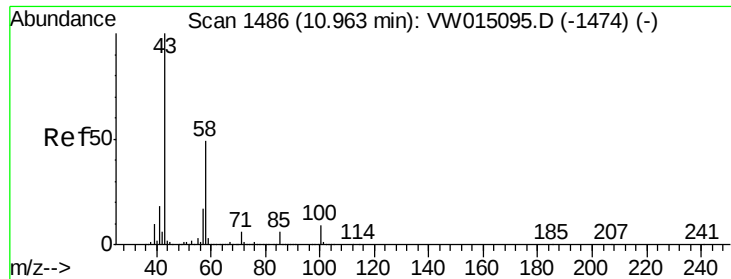
Tgt Ion: 63 Resp: 66047

Ion Ratio Lower Upper

63 100

106 22.4 18.0 27.0





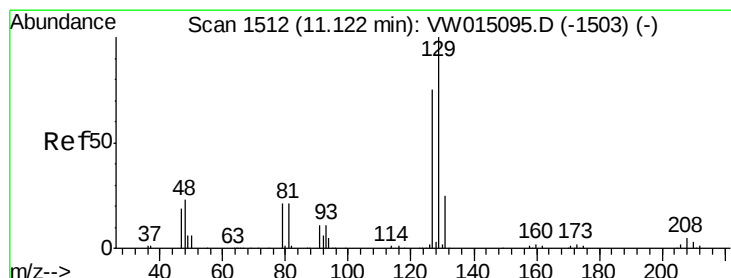
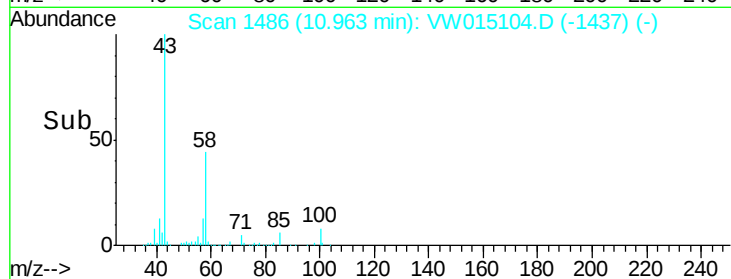
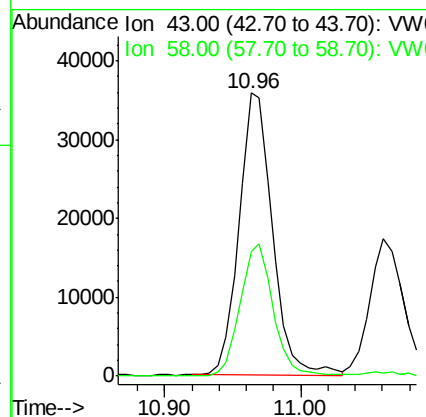
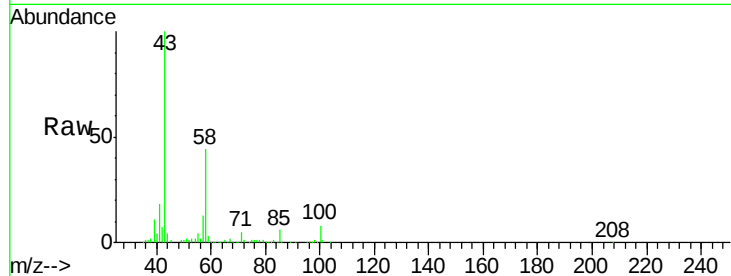
#59
2-Hexanone
Concen: 23.025 ug/l
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion: 43 Resp: 61212
Ion Ratio Lower Upper
43 100
58 46.5 24.6 73.8

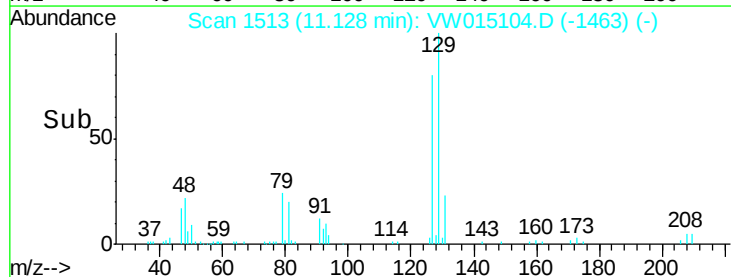
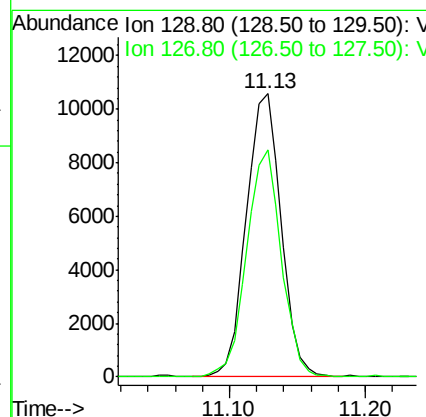
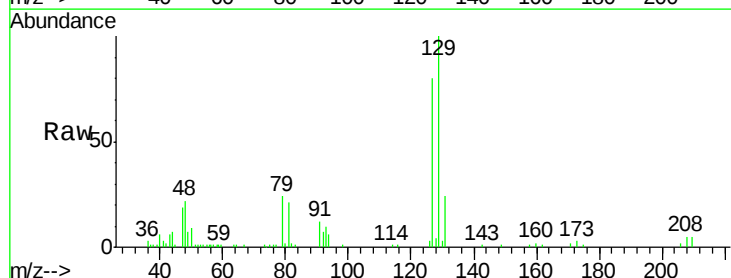
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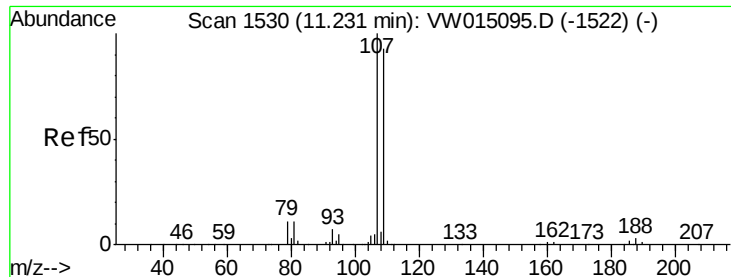
MMDadoda
3/11/2020 3:24:18 PM



#60
Dibromochloromethane
Concen: 4.775 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: 5.136 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

Tot Ion: 107 Resp: 17508

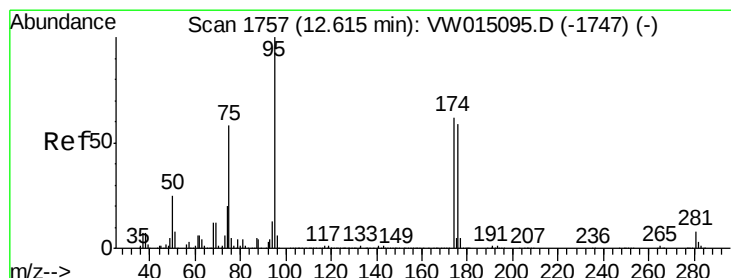
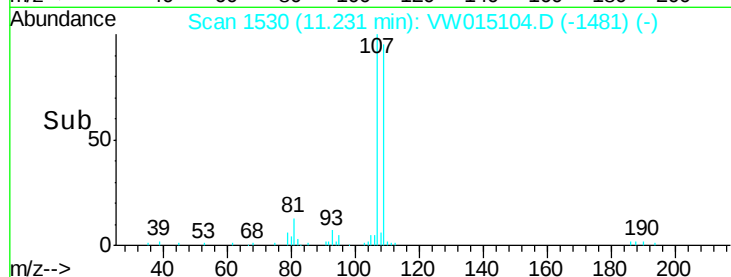
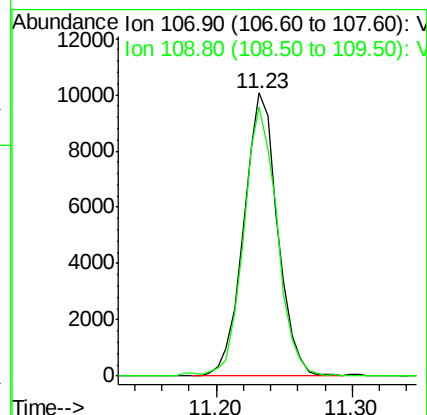
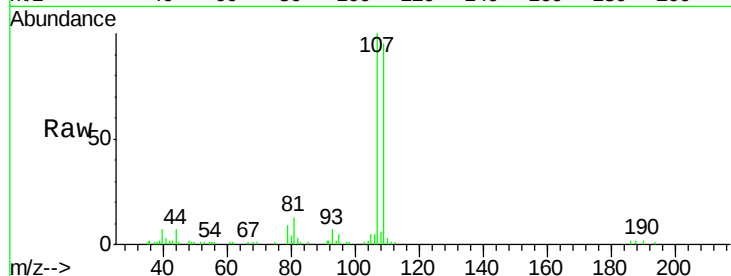
Ion Ratio Lower Upper

107 100

109 94.3 75.3 112.9

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#62

4-Bromofluorobenzene

Concen: 50.989 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

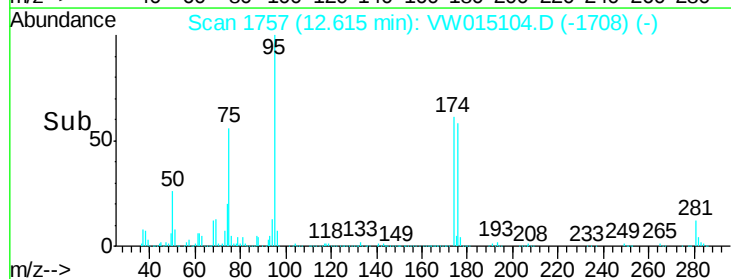
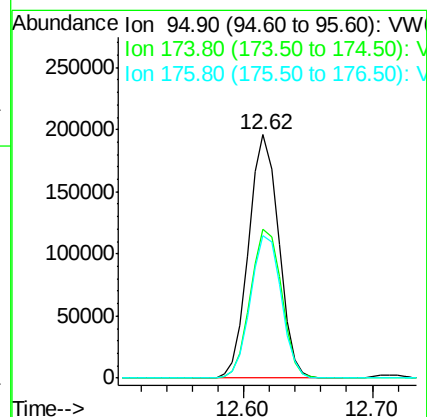
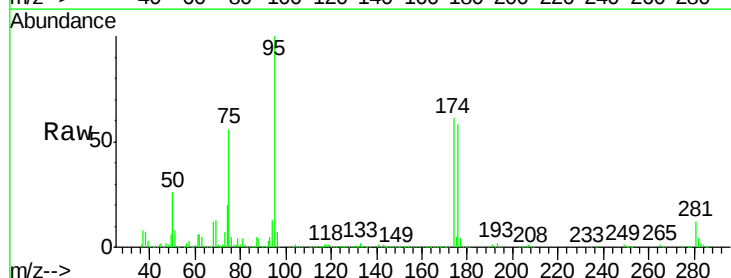
Tgt Ion: 95 Resp: 315783

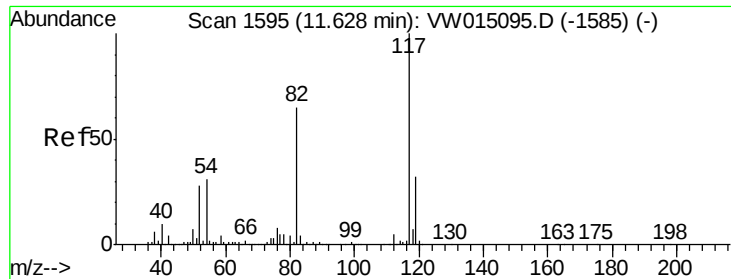
Ion Ratio Lower Upper

95 100

174 63.1 0.0 126.8

176 59.9 0.0 121.6





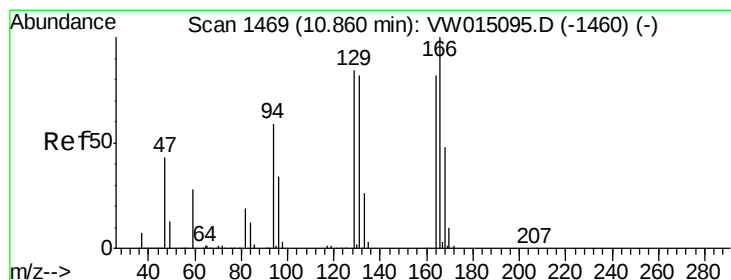
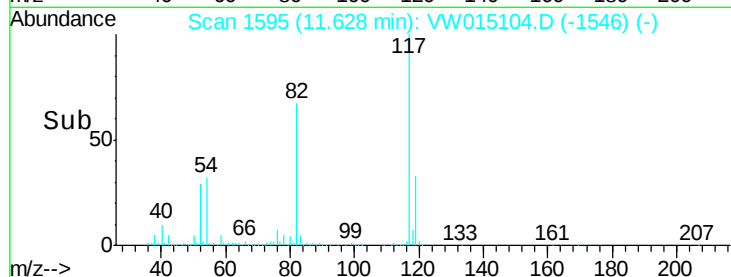
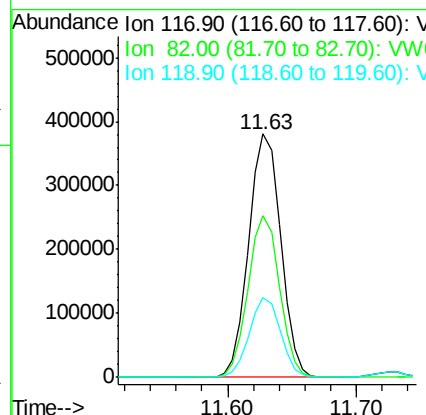
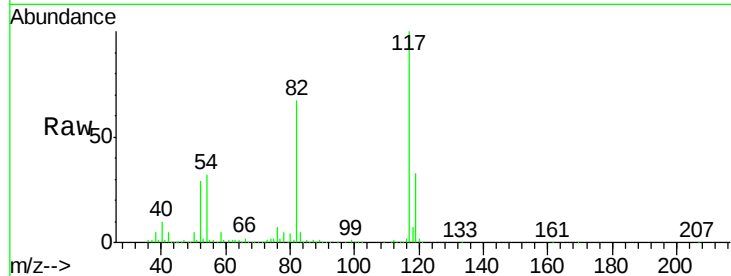
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.6	52.2	78.2
119	32.9	25.4	38.0

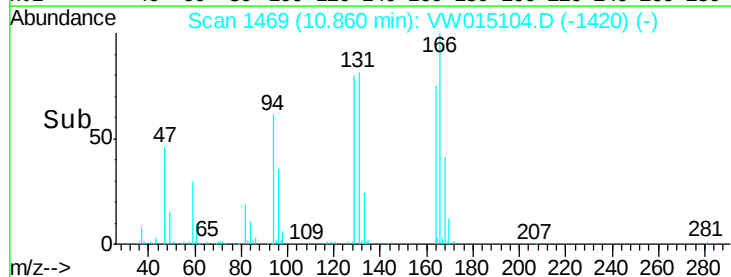
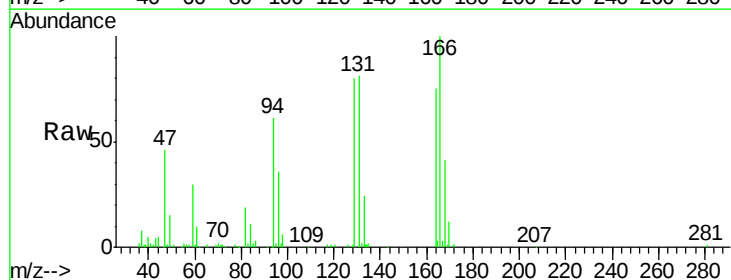
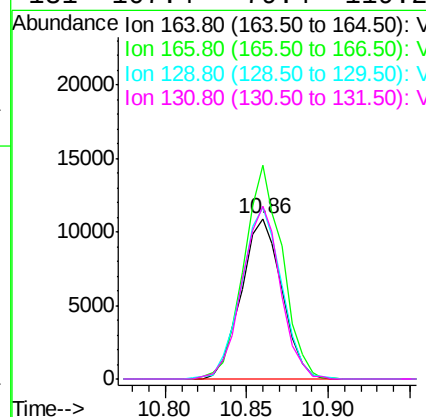
Manual Integrations
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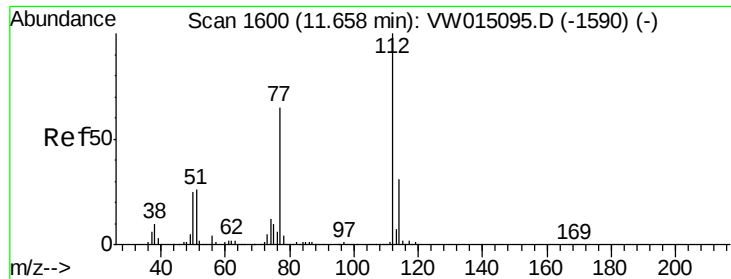
MMDadoda
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#64
Tetrachloroethene
Concen: 4.974 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion	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





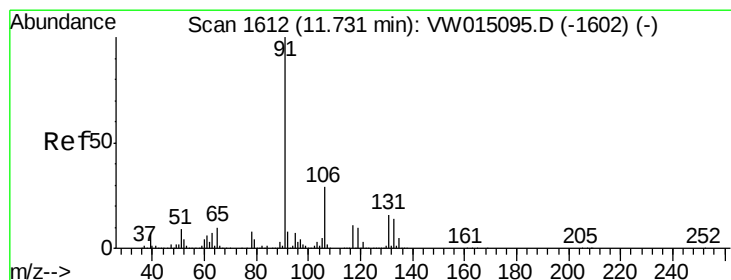
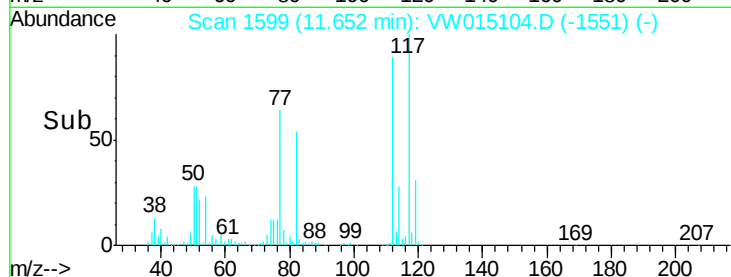
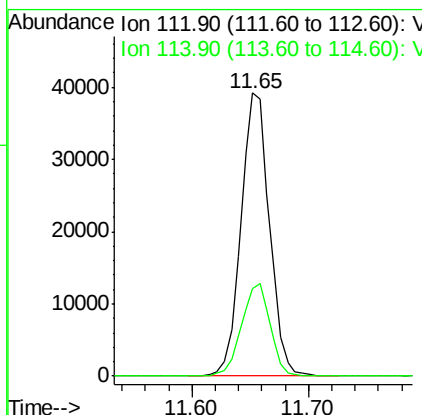
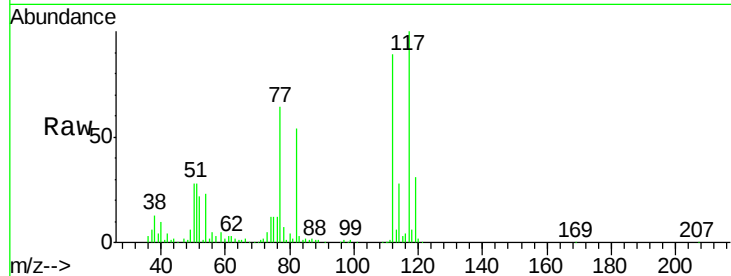
#65
Chlorobenzene
Concen: 5.104 ug/l
RT: 11.65 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion:112 Resp: 67034
Ion Ratio Lower Upper
112 100
114 31.1 25.0 37.6

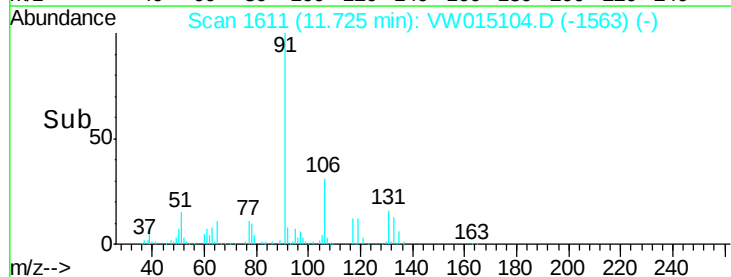
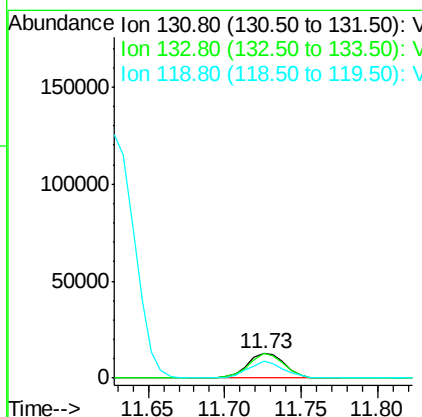
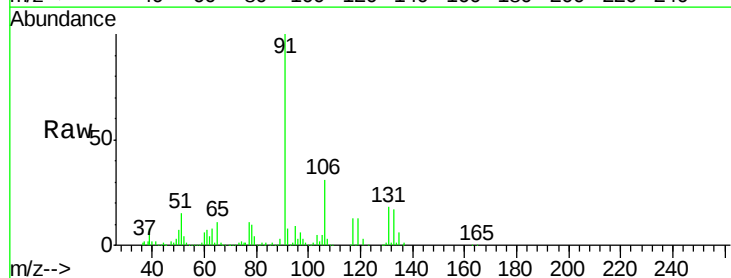
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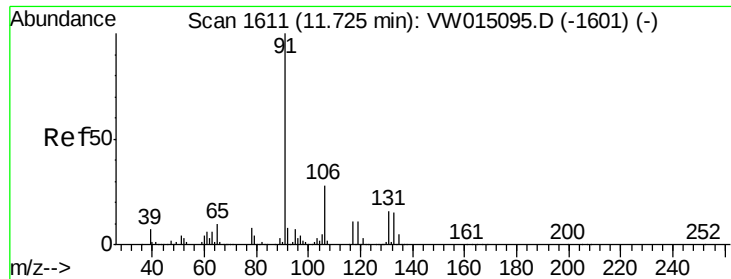
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.950 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. -0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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





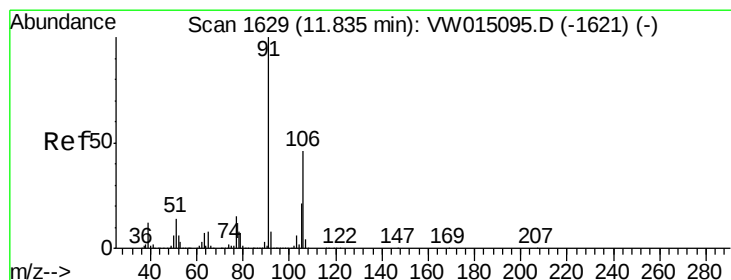
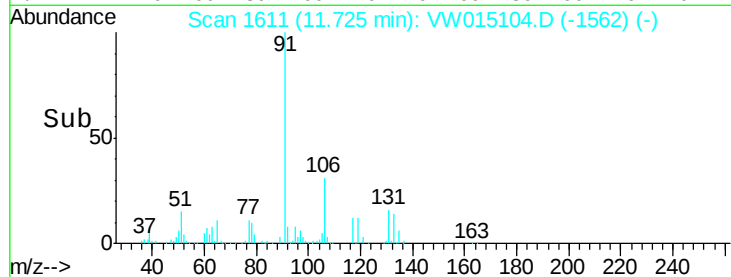
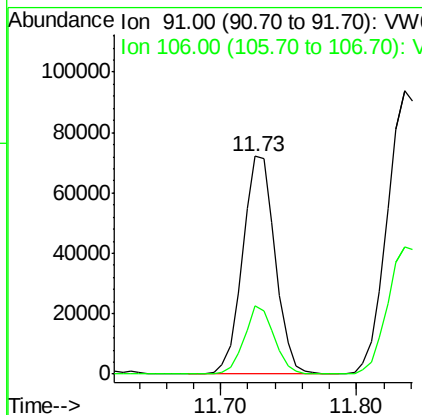
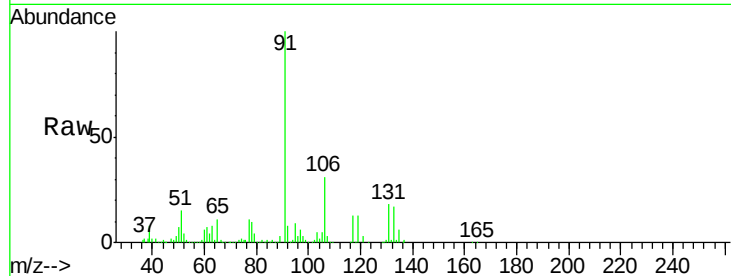
#67
Ethyl Benzene
Concen: 4.730 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

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

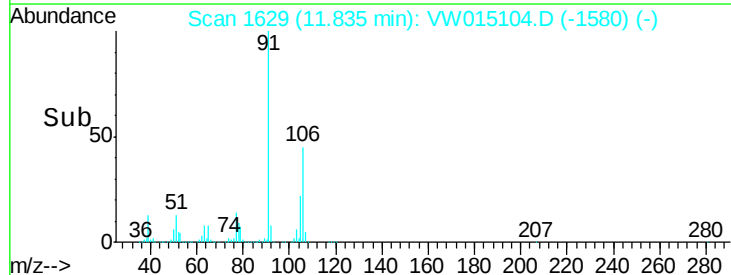
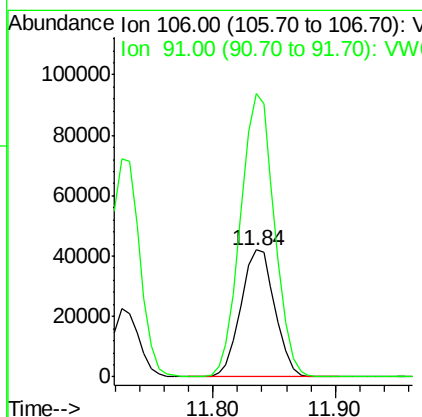
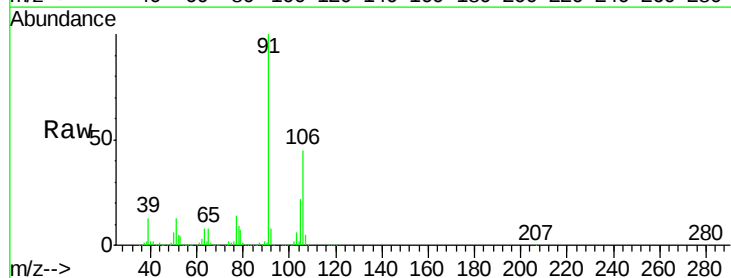
Manual Integrations
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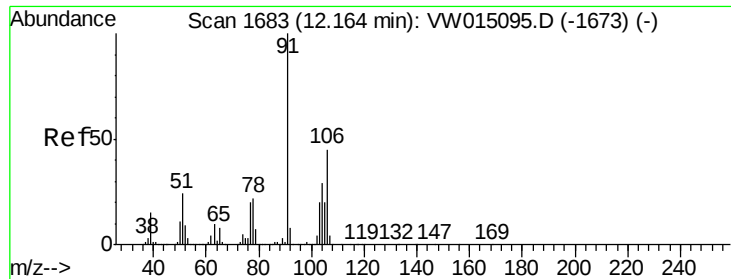
MMDadoda
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#68
m/p-Xylenes
Concen: 9.011 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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





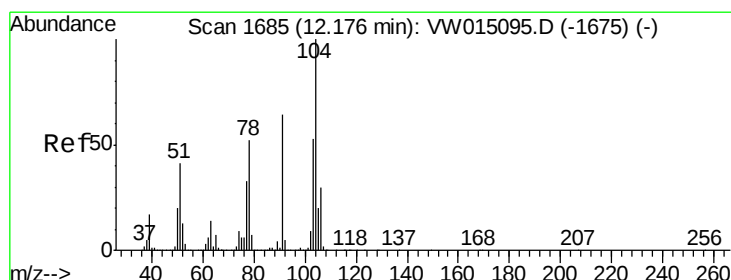
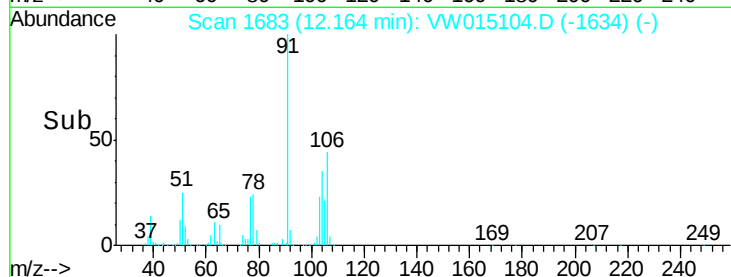
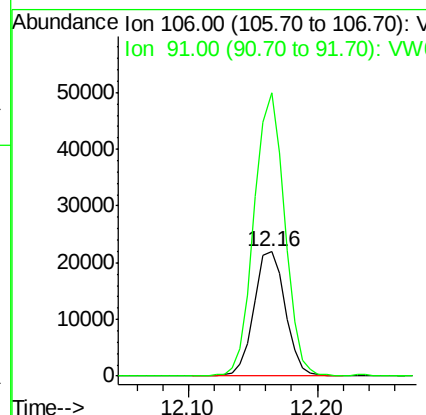
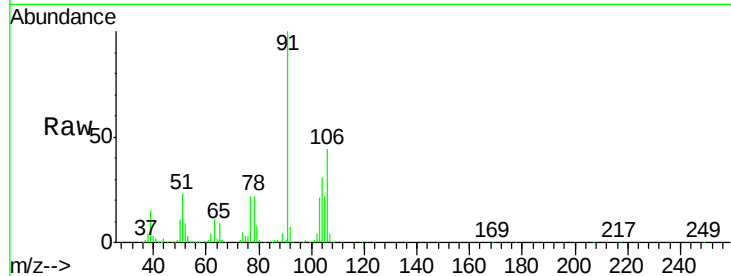
#69
o-Xylene
Concen: 4.496 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

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

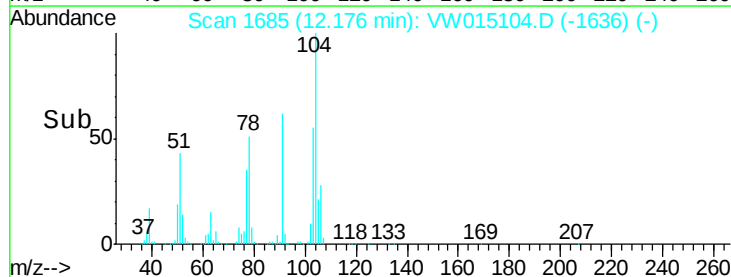
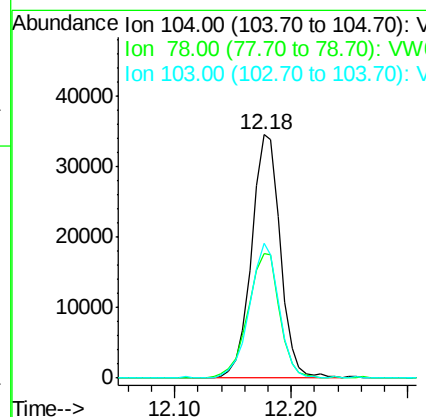
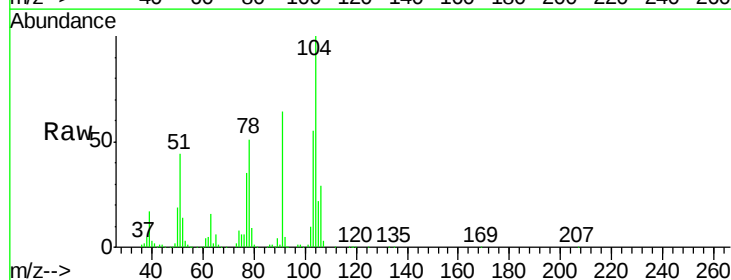
Manual Integrations
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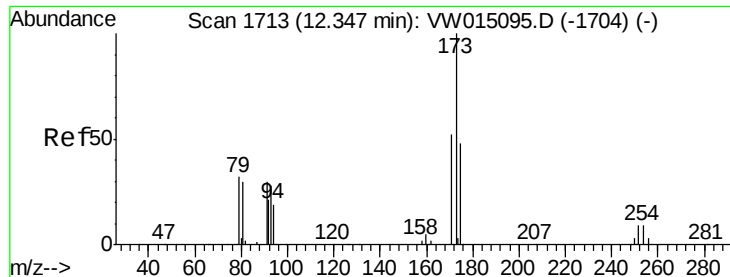
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#70
Styrene
Concen: 4.290 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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: 4.788 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

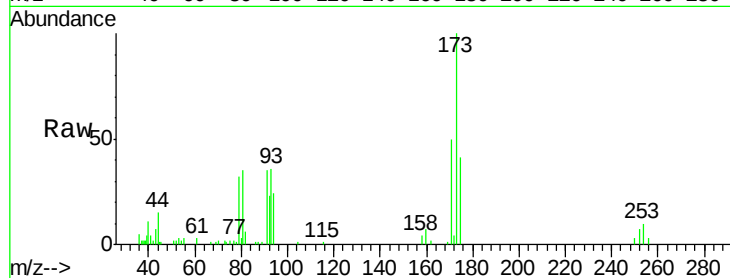
ClientSampleId :

LOQ-SOIL-02-QT1-2020

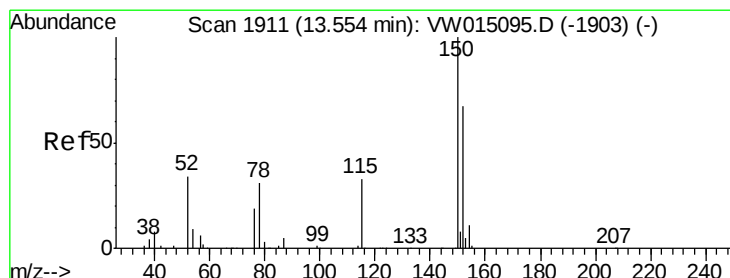
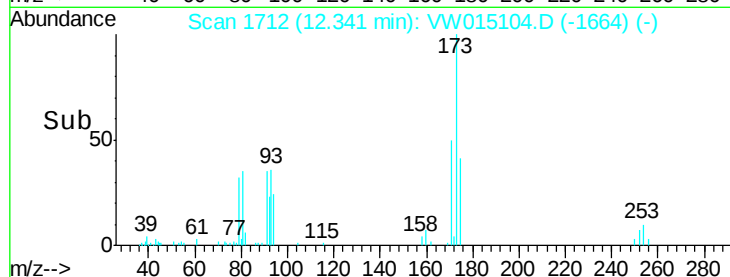
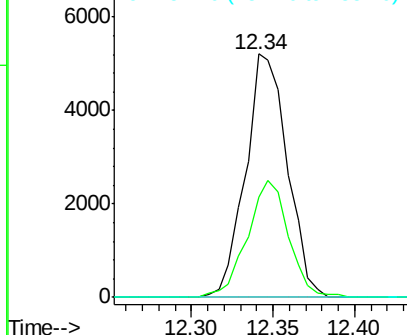
Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	23.8	71.4
254	0.0	0.1	0.1

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

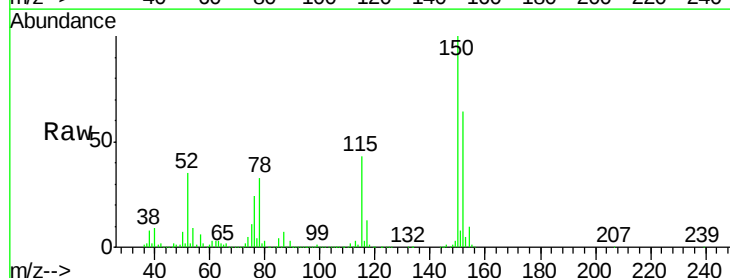
RT: 13.55 min Scan# 1911

Delta R.T. 0.00 min

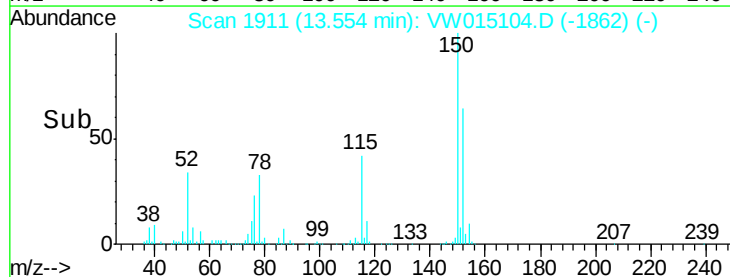
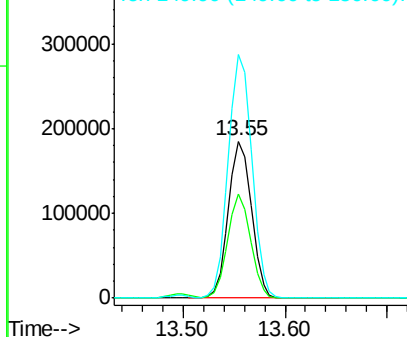
Lab File: VW015104.D

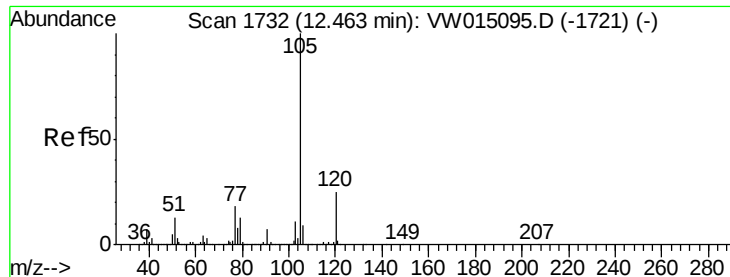
Acq: 09 Mar 2020 18:15

Tgt 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: 4.493 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

Tot Ion: 105 Resp: 99655

Ion Ratio Lower Upper

105 100

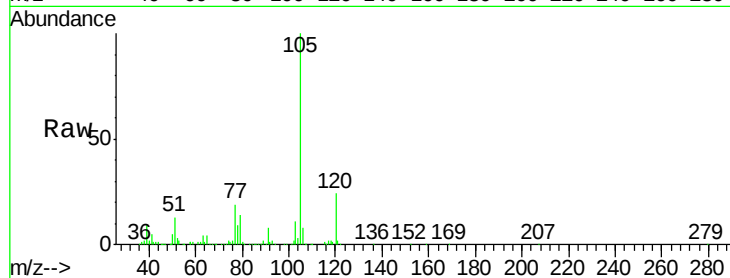
120 24.9 12.6 37.8

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.46

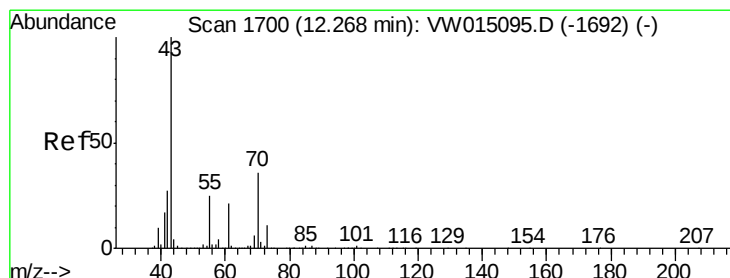
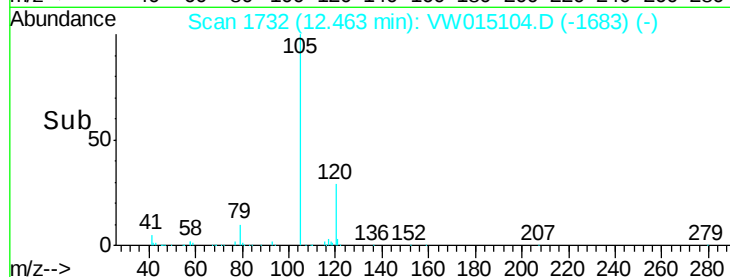
60000

40000

20000

0

Time-->



#74

N-ethyl acetate

Concen: 4.495 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

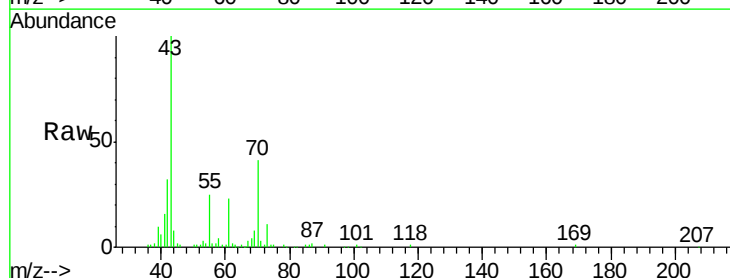
Ion Ratio Lower Upper

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

12.27

25000

20000

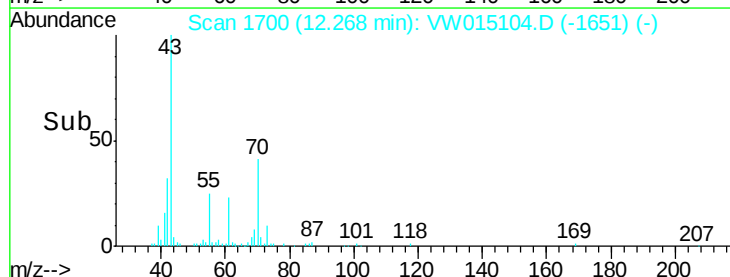
15000

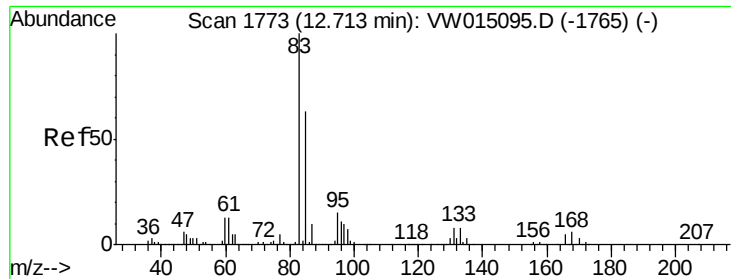
10000

5000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 5.572 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

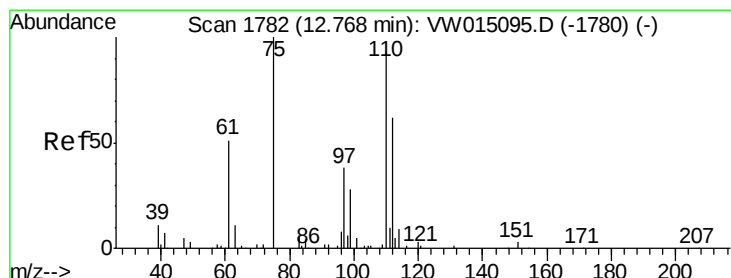
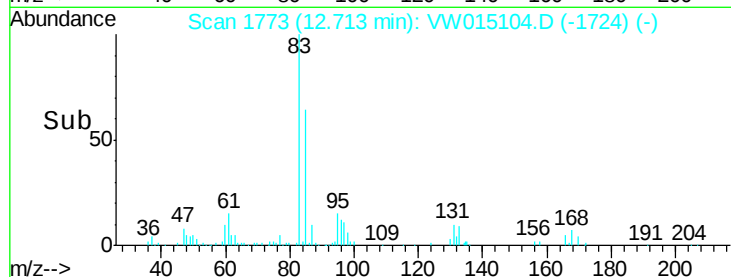
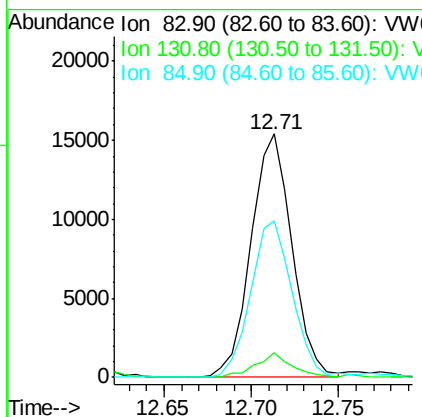
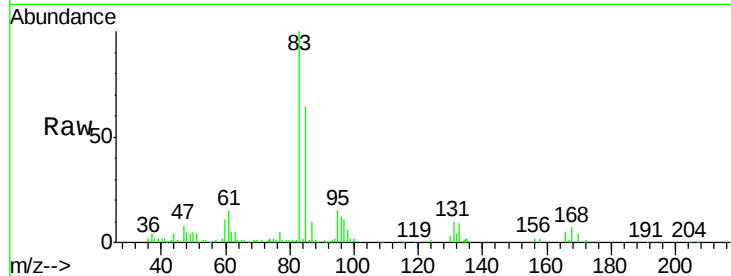
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	83	Resp:	25098
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.3	13.1
85	65.7	31.5	94.5

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#76

1,2,3-Trichloropropane

Concen: 5.772 ug/l m

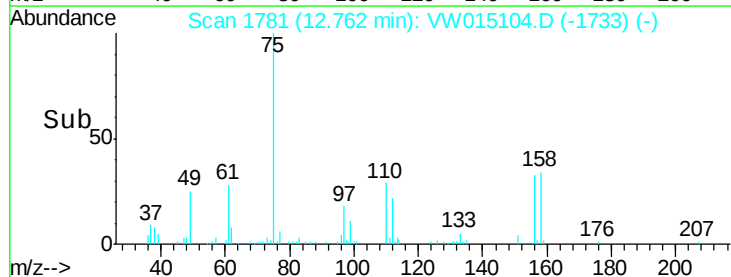
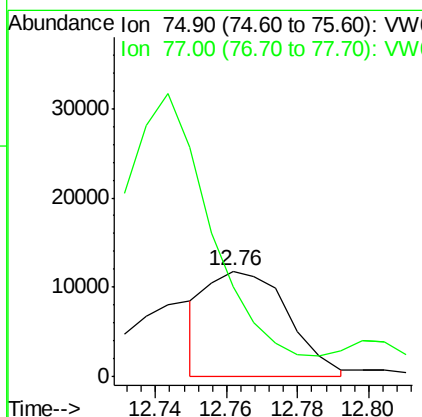
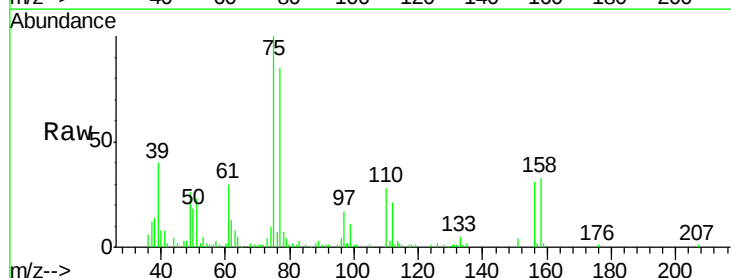
RT: 12.76 min Scan# 1781

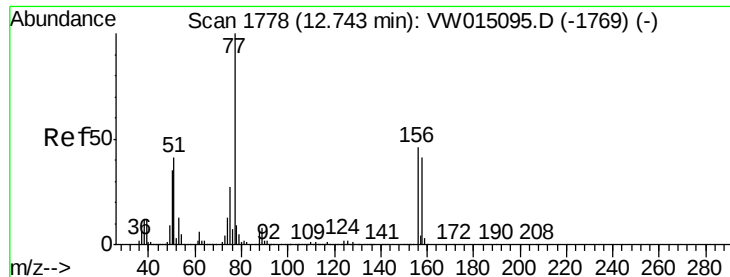
Delta R.T. -0.01 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Tgt Ion:	75	Resp:	18941
Ion Ratio	Lower	Upper	
75	100		
77	310.1	0.0	0.0#





#77

Bromobenzene

Concen: 5.218 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

Tot Ion:156 Resp: 22876

Ion Ratio Lower Upper

156 100

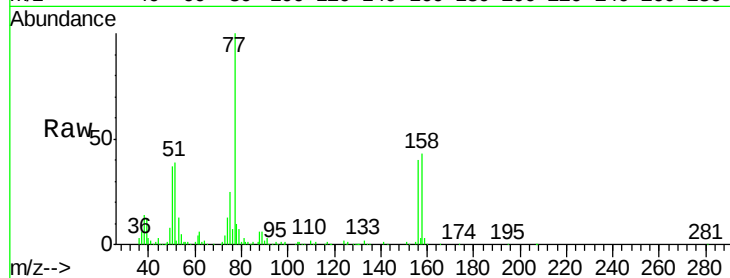
77 256.8 126.6 379.8

158 98.3 47.4 142.2

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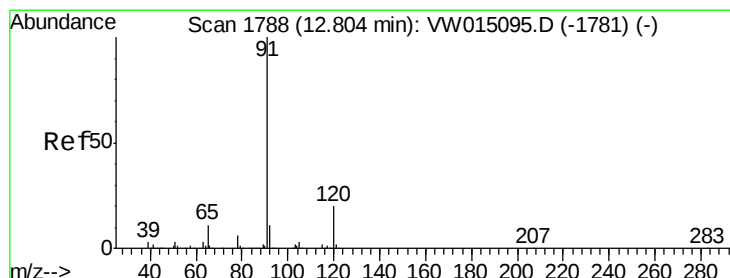
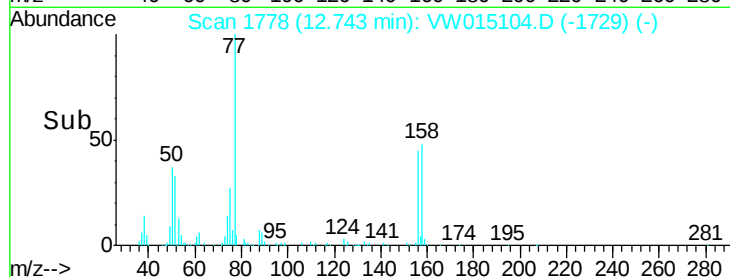
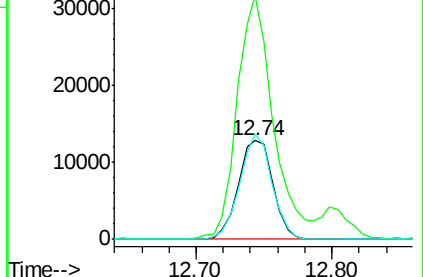
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.852 ug/l

RT: 12.80 min Scan# 1787

Delta R.T. -0.01 min

Lab File: VW015104.D

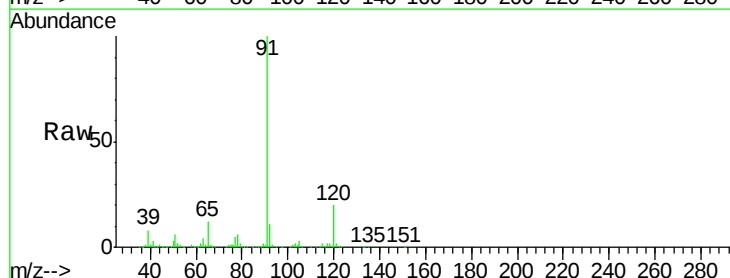
Acq: 09 Mar 2020 18:15

Tgt Ion: 91 Resp: 139877

Ion Ratio Lower Upper

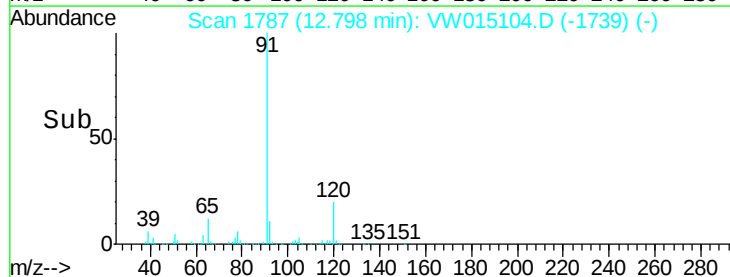
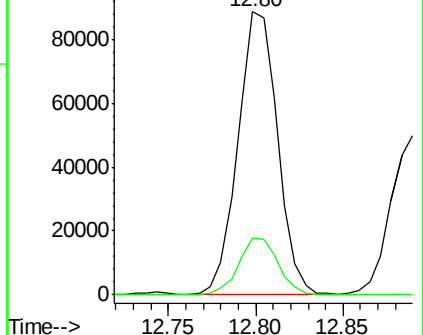
91 100

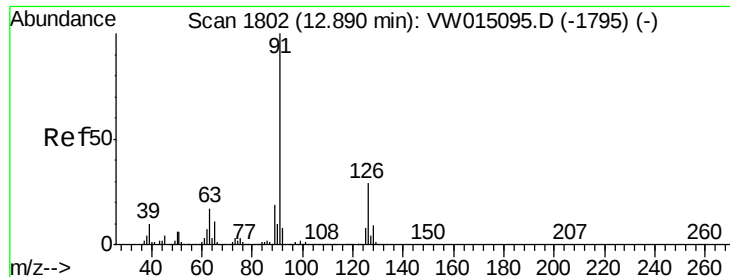
120 20.1 10.2 30.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





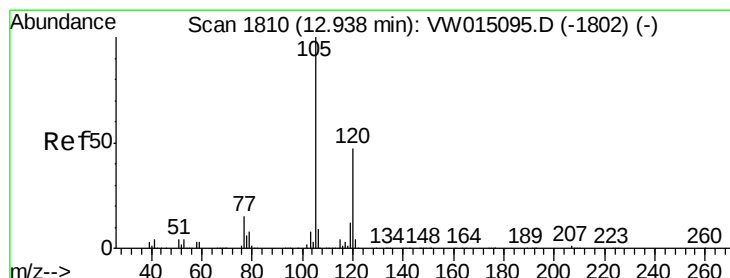
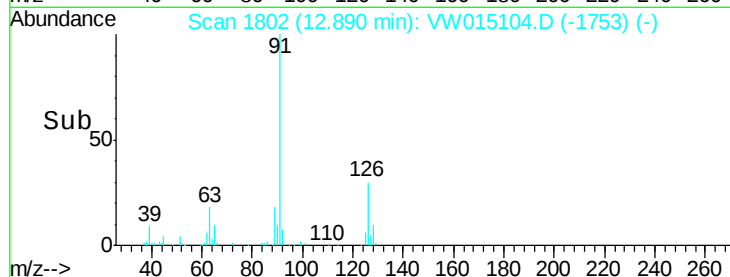
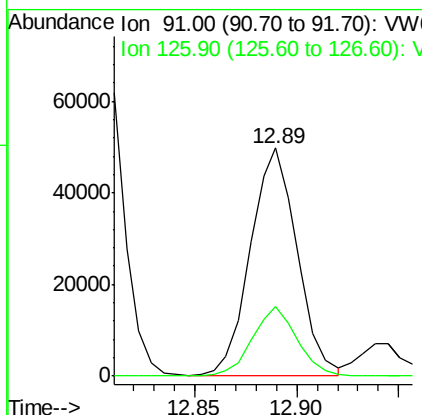
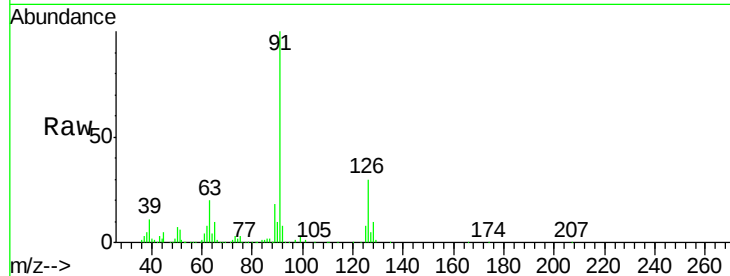
#79
 2-Chlorotoluene
 Concen: 4.865 ug/l
 RT: 12.89 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.5	43.6

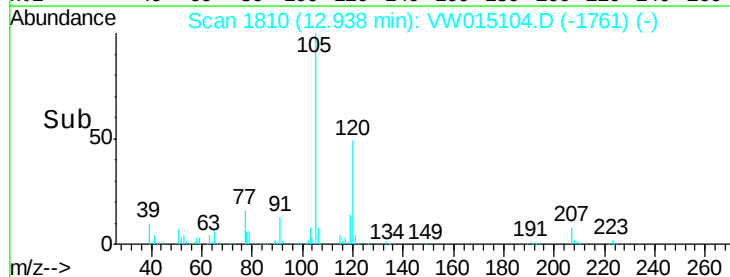
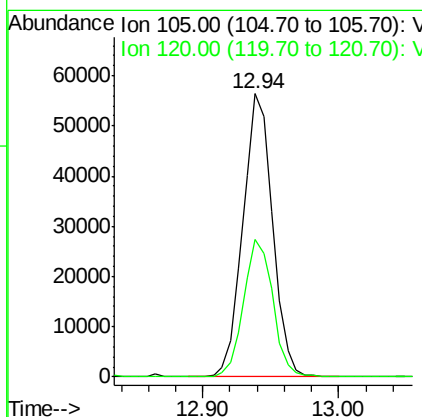
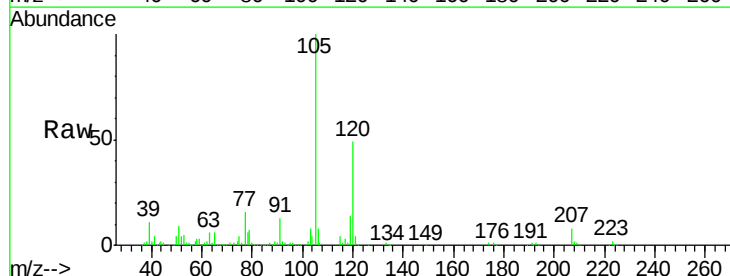
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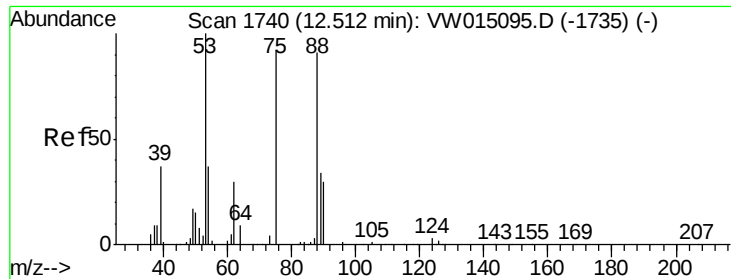
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#80
 1,3,5-Trimethylbenzene
 Concen: 4.519 ug/l
 RT: 12.94 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.3	69.8





#81

trans-1,4-Dichloro-2-butene

Concen: 4.827 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

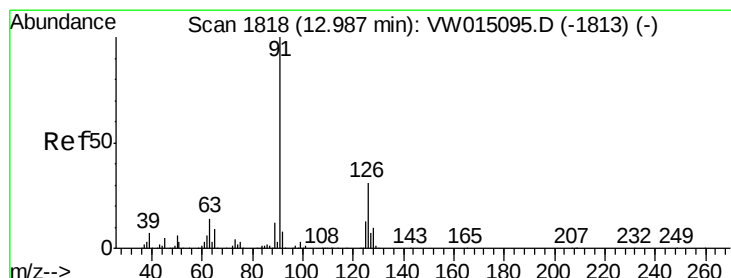
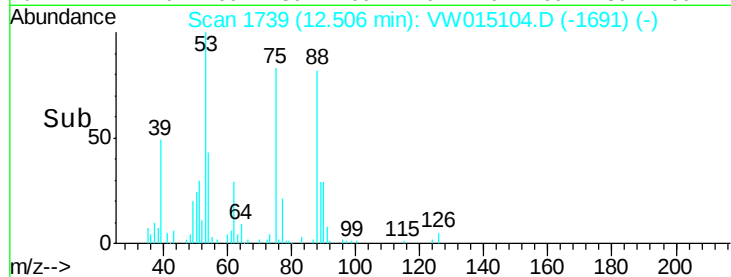
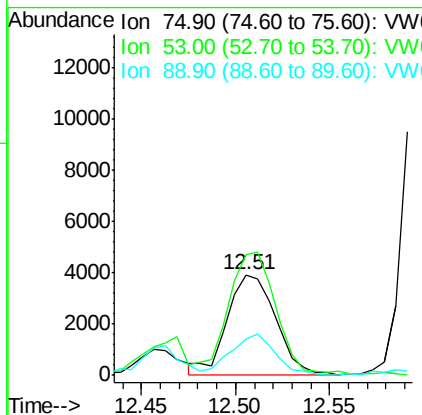
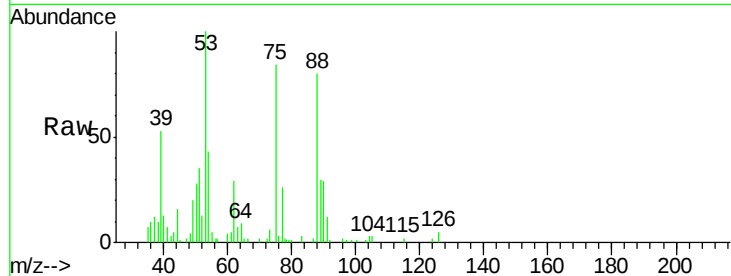
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	75	Resp:	7013
Ion	Ratio	Lower	Upper
75	100		
53	120.2	88.4	132.6
89	37.9	33.1	49.7

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#82

4-Chlorotoluene

Concen: 4.770 ug/l

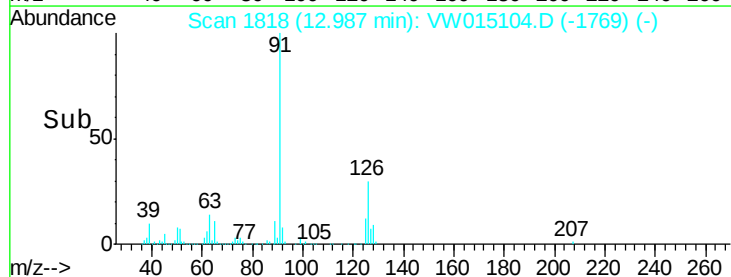
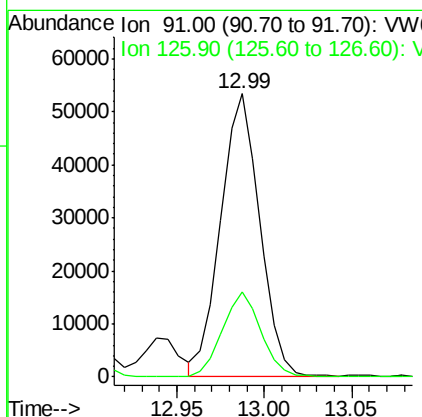
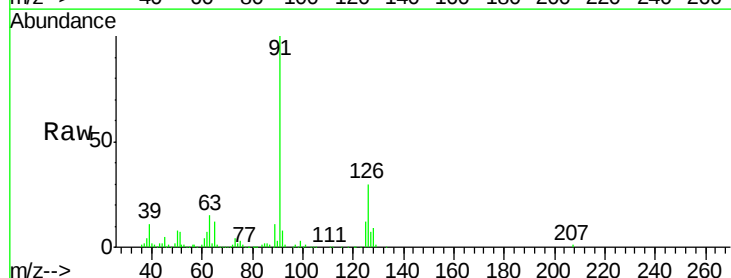
RT: 12.99 min Scan# 1818

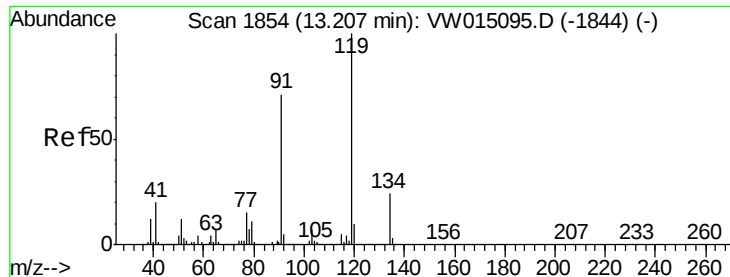
Delta R.T. 0.00 min

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





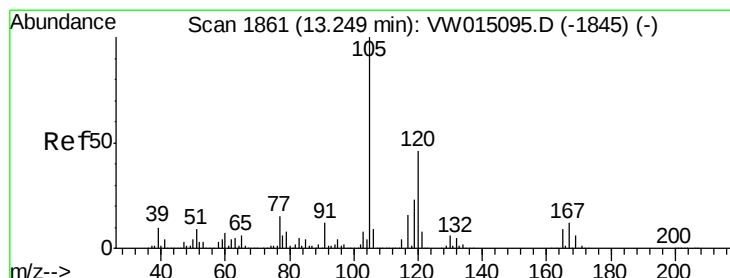
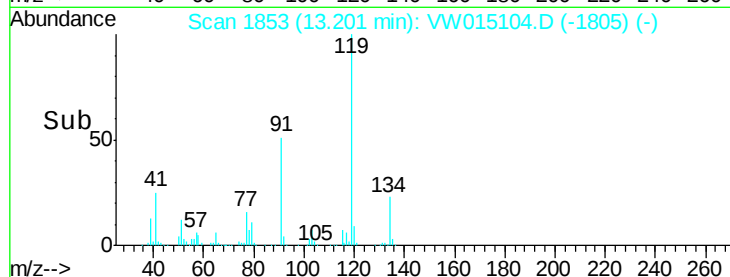
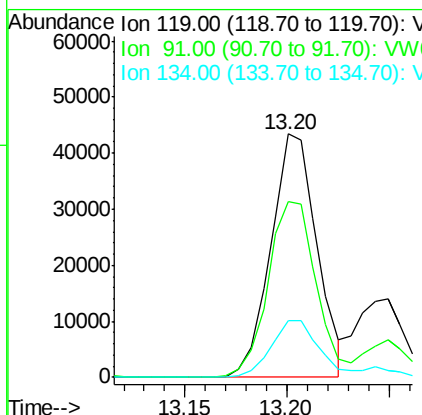
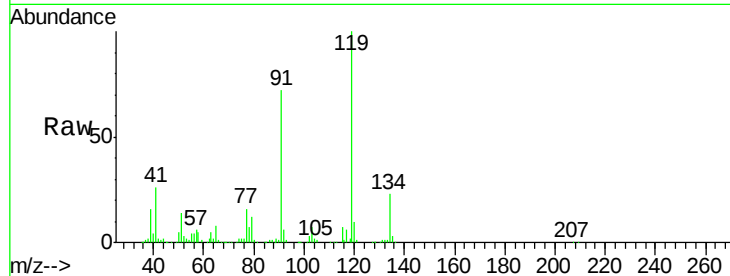
#83
tert-Butylbenzene
Concen: 4.432 ug/l
RT: 13.20 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	75.2	35.7	107.1
134	24.1	12.7	38.1

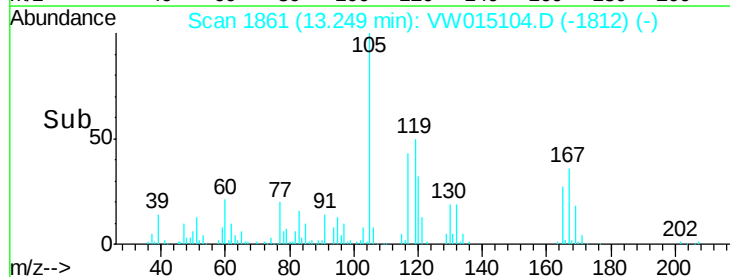
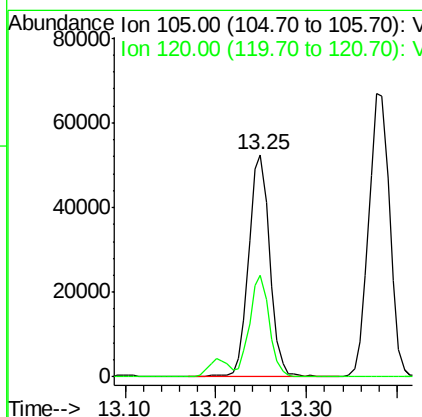
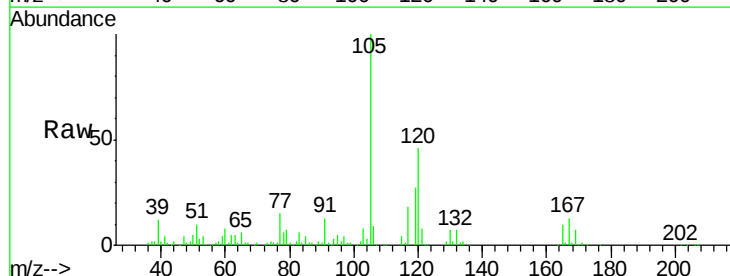
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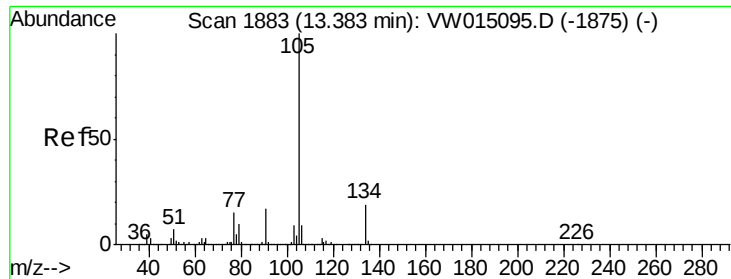
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#84
1,2,4-Trimethylbenzene
Concen: 4.456 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.1	66.3





#85

sec-Butylbenzene

Concen: 4.586 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

Tot Ion:105 Resp: 107234

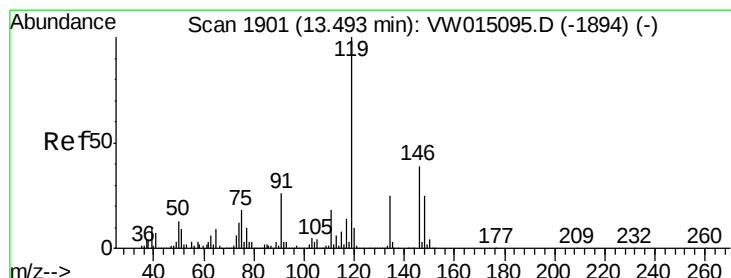
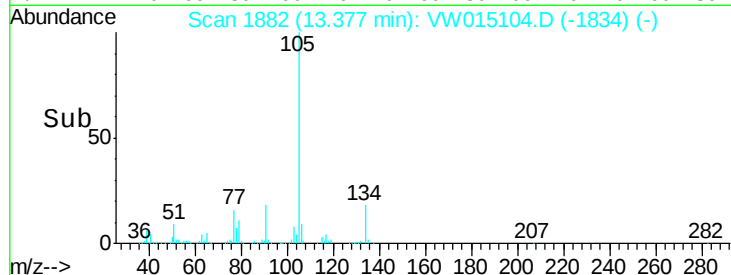
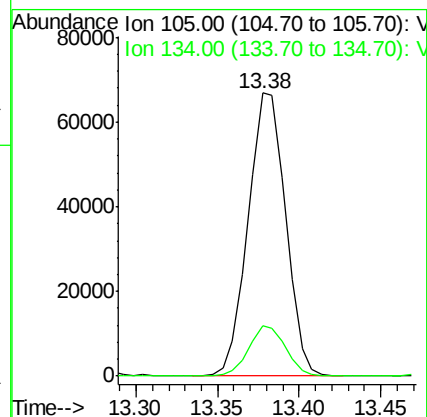
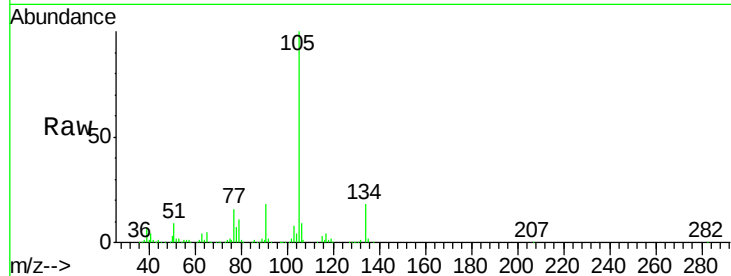
Ion Ratio Lower Upper

105 100

134 17.6 9.0 27.1

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#86

p-Isopropyltoluene

Concen: 4.418 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

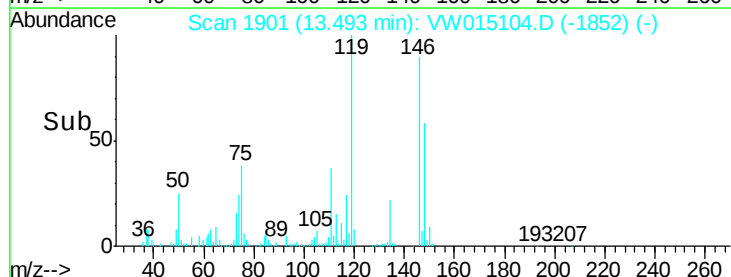
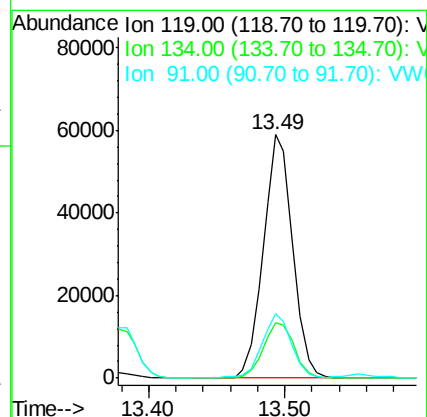
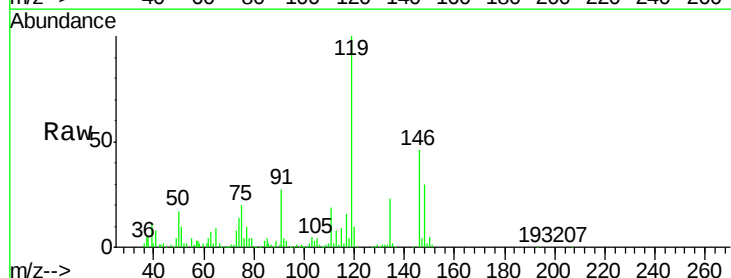
Tgt Ion:119 Resp: 88798

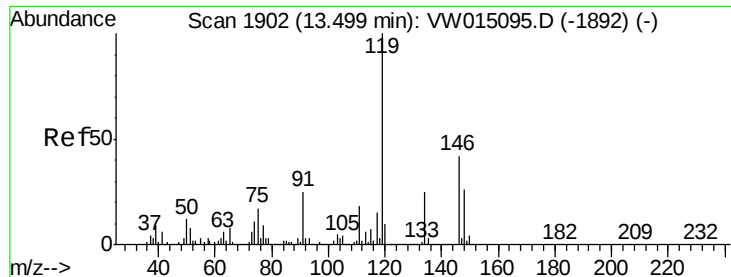
Ion Ratio Lower Upper

119 100

134 24.2 12.6 37.8

91 27.0 12.9 38.6





#87

1,3-Dichlorobenzene

Concen: 4.882 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

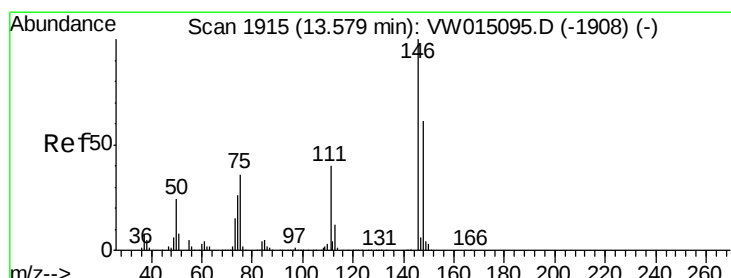
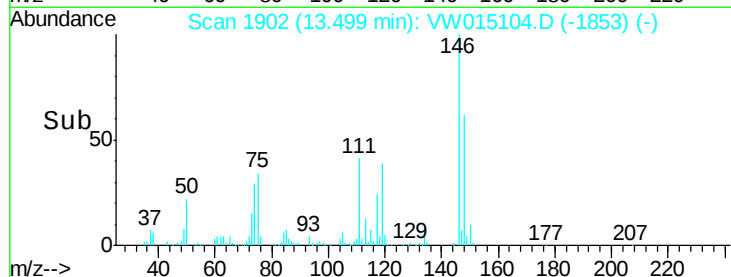
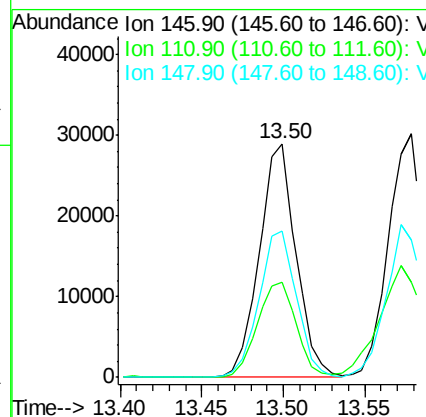
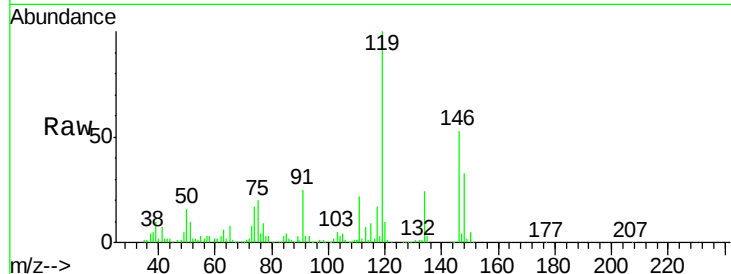
Instrument :
MSVOA_W

ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	22.5	67.5
148	63.8	31.9	95.9

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#88

1,4-Dichlorobenzene

Concen: 5.129 ug/l

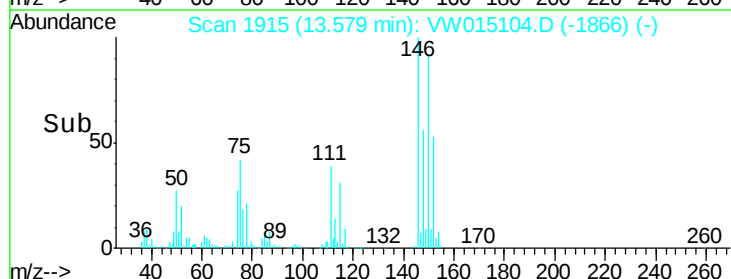
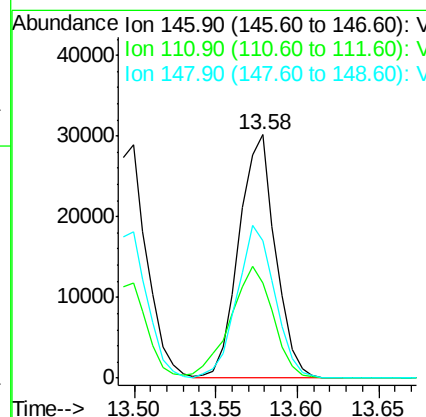
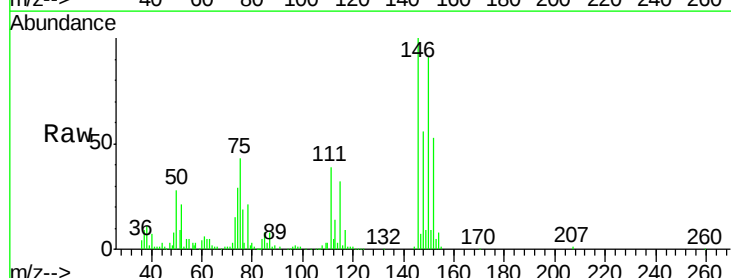
RT: 13.58 min Scan# 1915

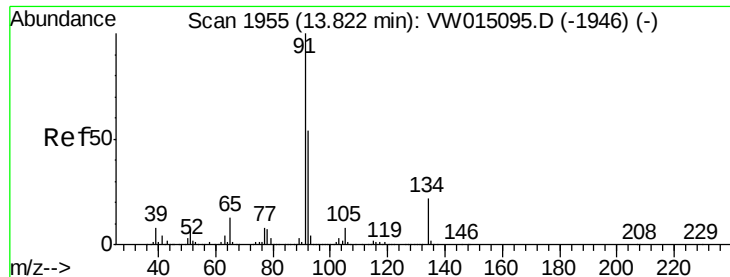
Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	54.3	21.3	63.9
148	65.2	31.6	94.8





#89

n-Butylbenzene

Concen: 4.466 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

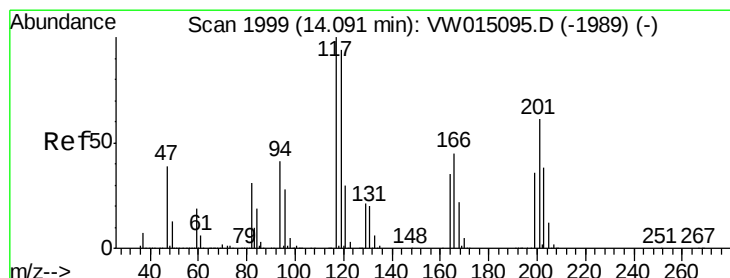
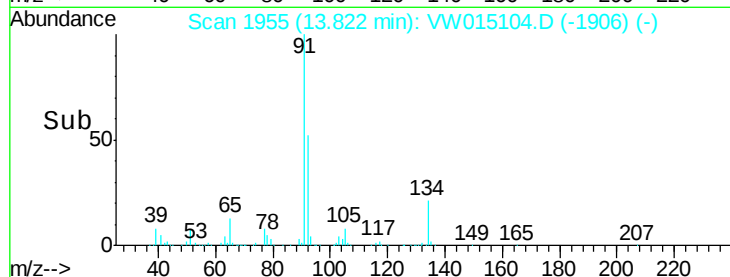
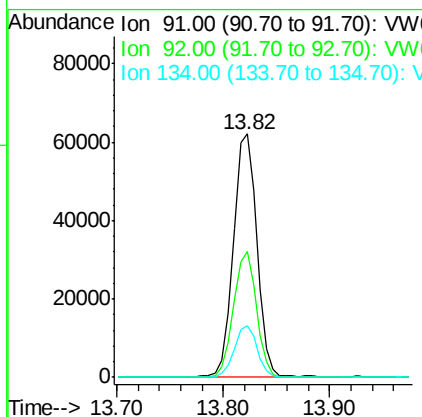
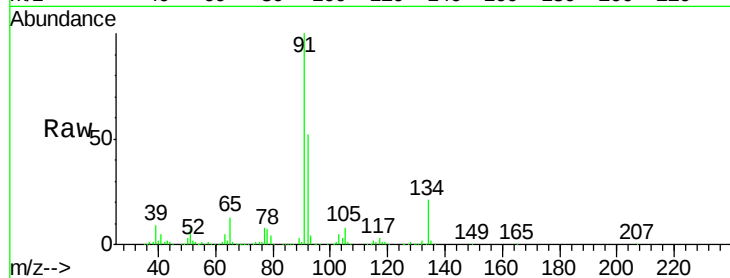
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	91	Resp:	96797
Ion	Ratio	Lower	Upper
91	100		
92	50.5	26.8	80.3
134	20.7	10.8	32.4

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#90

Hexachloroethane

Concen: 5.107 ug/l

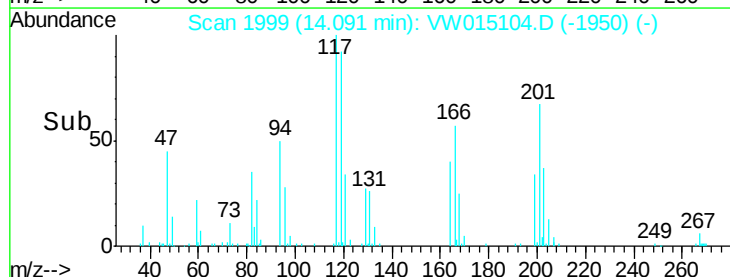
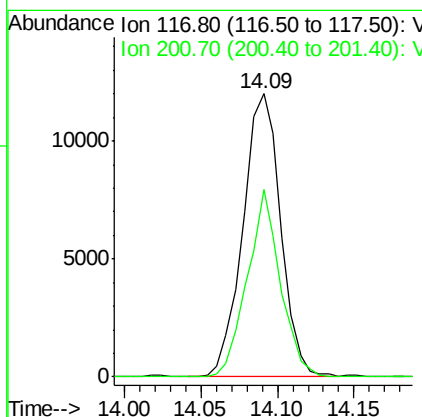
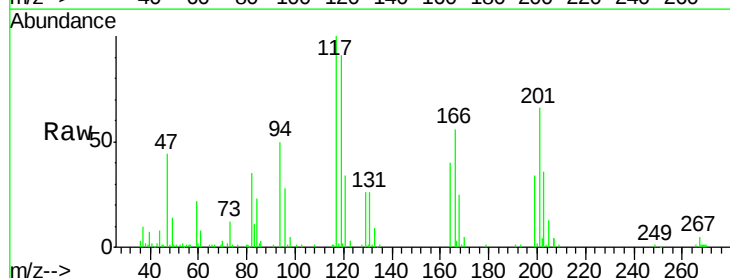
RT: 14.09 min Scan# 1999

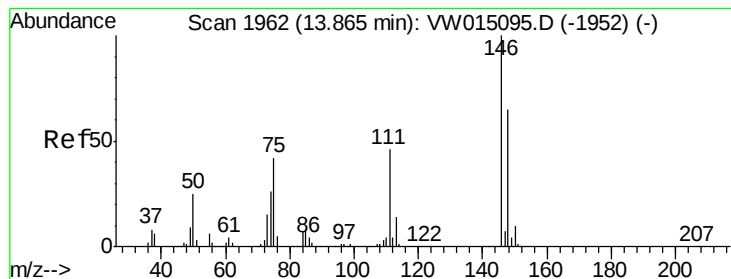
Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Tgt Ion:	117	Resp:	20588
Ion	Ratio	Lower	Upper
117	100		
201	57.7	30.3	90.9





#91

1,2-Dichlorobenzene

Concen: 4.876 ug/l

RT: 13.87 min Scan# 1962

Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Instrument :

MSVOA_W

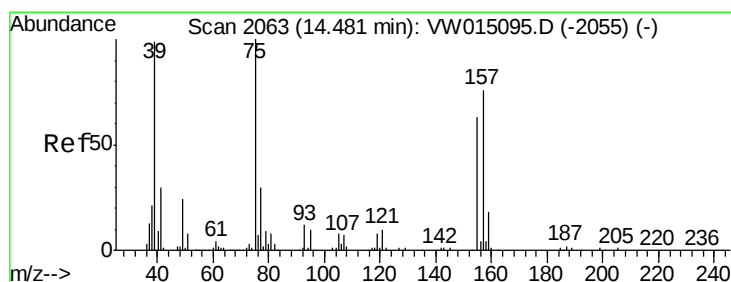
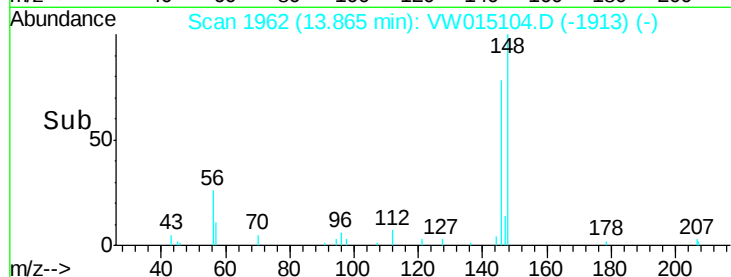
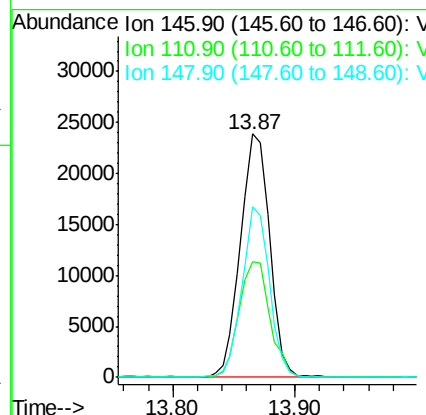
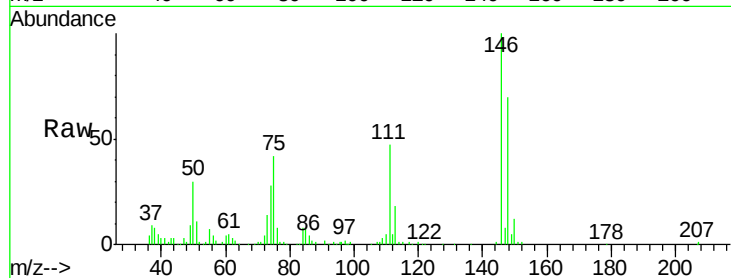
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	146	Resp:	39672
Ion Ratio	Lower	Upper	
146	100		
111	50.0	23.1	69.2
148	65.7	32.3	96.9

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#92

1,2-Dibromo-3-Chloropropane

Concen: 5.689 ug/l

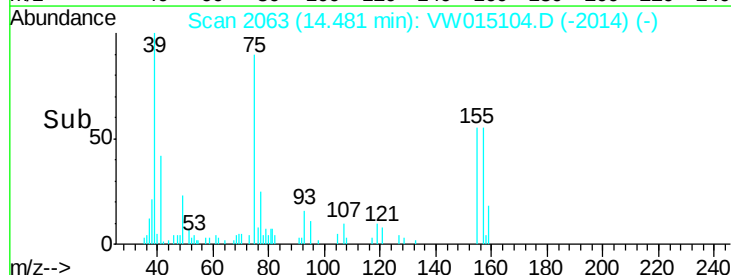
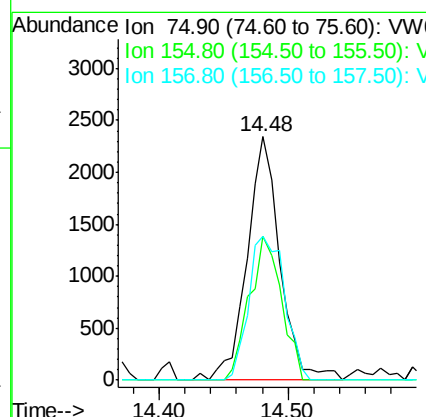
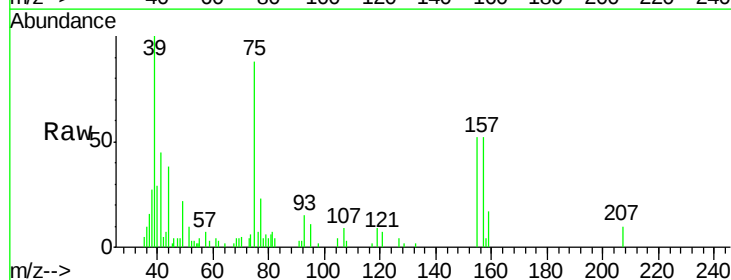
RT: 14.48 min Scan# 2063

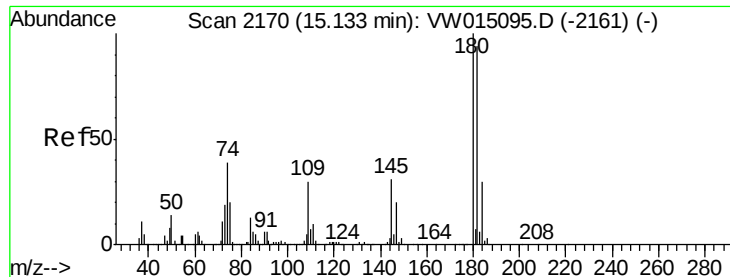
Delta R.T. 0.00 min

Lab File: VW015104.D

Acq: 09 Mar 2020 18:15

Tgt Ion:	75	Resp:	4115
Ion Ratio	Lower	Upper	
75	100		
155	57.6	32.1	96.3
157	65.0	39.6	118.7





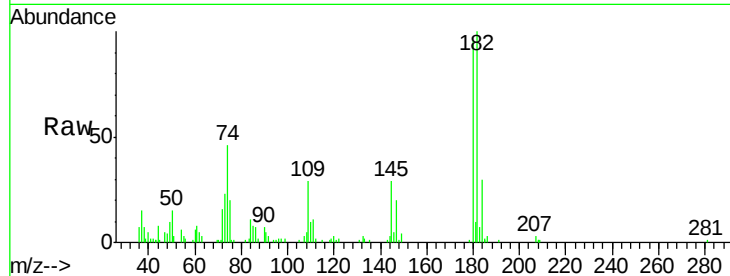
#93
 1,2,4-Trichlorobenzene
 Concen: 4.087 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

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

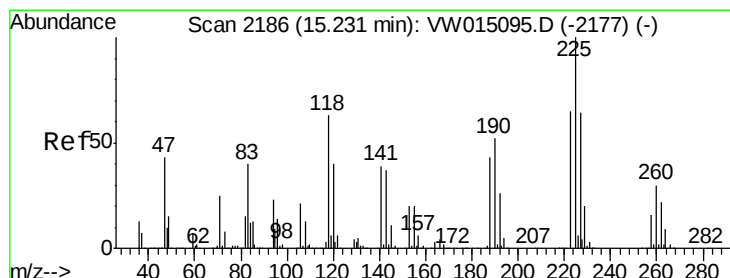
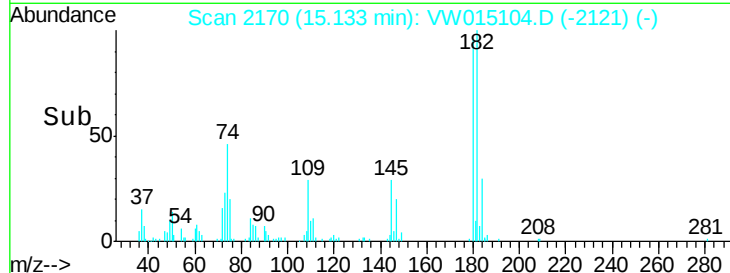
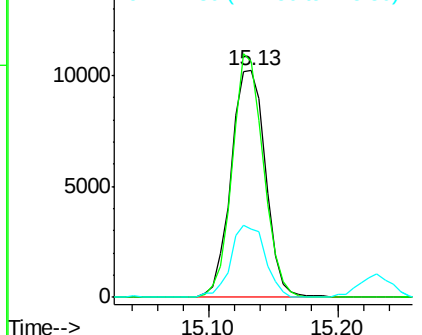
Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.0	47.6	142.9	
145	31.7	16.2	48.5	

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:24:18 PM

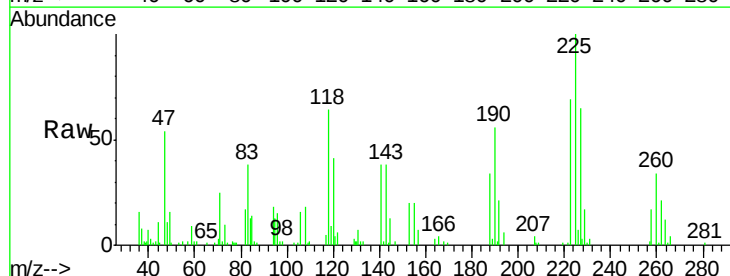


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

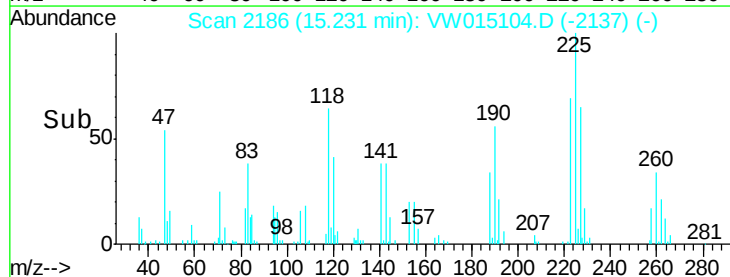
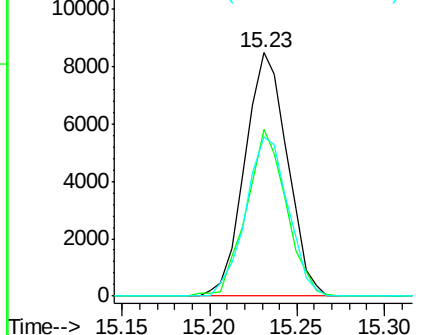


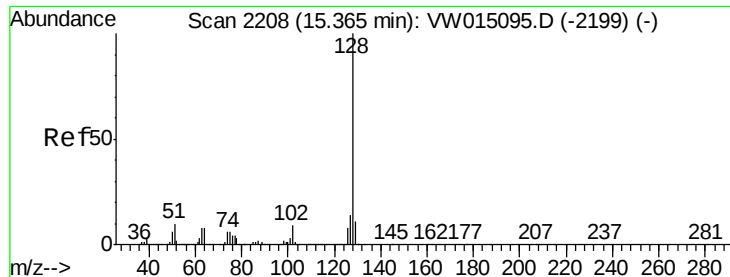
#94
 Hexachlorobutadiene
 Concen: 4.882 ug/l
 RT: 15.23 min Scan# 2186
 Delta R.T. 0.00 min
 Lab File: VW015104.D
 Acq: 09 Mar 2020 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.3	32.5	97.4	
227	65.5	33.0	99.0	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





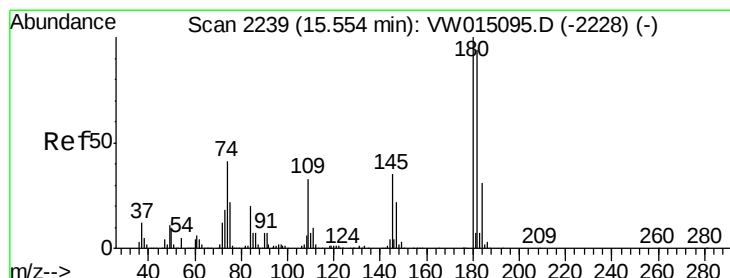
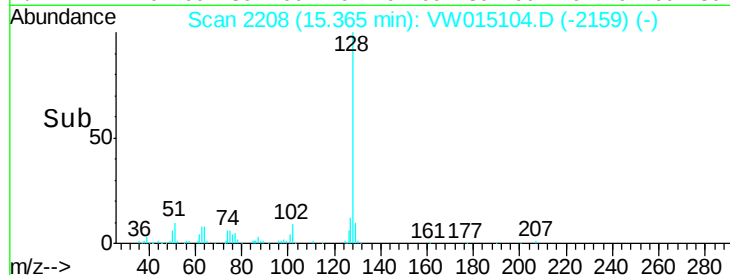
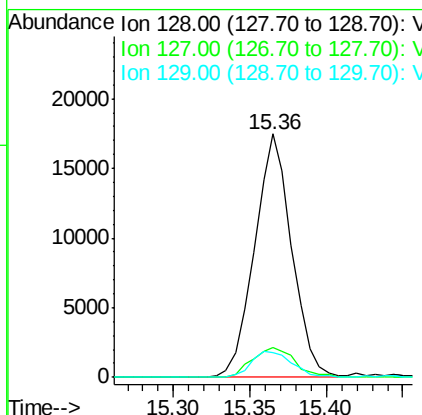
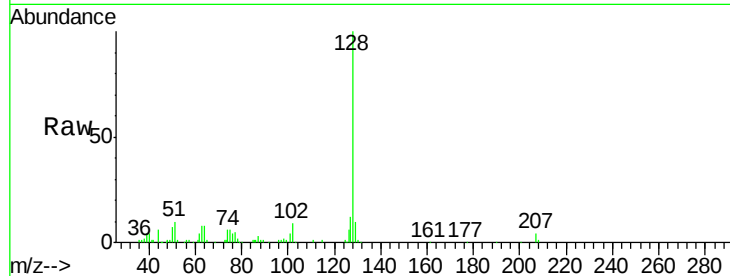
#95
Naphthalene
Concen: 3.397 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.7	16.1
129	11.9	8.6	12.8

Manual Integrations
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3/11/2020 3:24:18 PM



#96
1,2,3-Trichlorobenzene
Concen: 4.127 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VW015104.D
Acq: 09 Mar 2020 18:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.9	143.7
145	35.9	17.5	52.6

