

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061322\
 Data File : VL039259.D
 Acq On : 13 Jun 2022 19:54
 Operator : SY/AP
 Sample : N3330-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 OTC-SG-2

Quant Time: Jun 14 01:32:16 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1280071	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2922708	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2596433	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2384185	11.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.00	85	129526	0.576	ppbv 98
3) Chlorodifluoromethane	3.00	51	9563801	58.720	ppbv 99
4) Chloromethane	3.15	50	32527	0.389	ppbv # 73
7) Chloroethane	3.57	64	2389	0.088	ppbv # 74
8) Dichlorotetrafluoroethane	3.06	85	66307	0.323	ppbv # 16
9) Propene	3.21	41	2278044	32.076	ppbv 96
10) Heptane	8.13	43	31724	0.191	ppbv # 53
11) Trichlorofluoromethane	3.96	101	22983	0.113	ppbv 92
12) 1,1,2-Trichlorotrifluoroet	4.49	101	7473	0.056	ppbv # 22
13) Ethanol	3.61	45	6370244	1644.754	ppbv # 100
15) Acetone	3.85	43	3347087	25.101	ppbv 97
16) 1,3-Butadiene	3.32	39	89922	1.254	ppbv # 40
17) tert-Butyl alcohol	4.30	59	228351	2.208	ppbv 95
19) Isopropyl Alcohol	3.98	45	586458	9.377	ppbv # 1
20) Methylene Chloride	4.35	84	1429354	25.437	ppbv 95
21) Allyl Chloride	4.38	41	5506	0.061	ppbv # 1
23) Vinyl Acetate	5.07	43	176622	1.601	ppbv # 65
25) Ethyl Acetate	5.68	43	2297545	7.645	ppbv 98
26) Hexane	5.69	57	1064909	8.063	ppbv 92
29) Chloroform	5.76	83	256230	1.153	ppbv 95
30) Cyclohexane	7.14	84	7312	0.066	ppbv # 1
31) cis-1,2-Dichloroethene	5.56	61	44849	0.333	ppbv # 88
34) 2-Butanone	5.25	43	521959	3.287	ppbv 97
36) Benzene	6.90	78	1422213	5.994	ppbv 96
37) 1,2-Dichloroethane	6.31	62	5138	0.033	ppbv # 84
38) Trichloroethene	7.84	130	374926	3.440	ppbv 92
39) 1,2-Dichloropropane	7.18	63	847054	8.975	ppbv # 25
40) 1,4-Dioxane	7.84	88	3359	0.108	ppbv # 1
41) Tetrahydrofuran	5.74	42	6393	0.067	ppbv # 65
43) Methyl Methacrylate	8.02	69	3680	0.040	ppbv # 1
50) 4-Methyl-2-Pentanone	8.75	43	145415	0.612	ppbv 98
51) 2-Hexanone	10.14	43	21641	0.117	ppbv # 28
52) Tetrachloroethene	11.29	164	38968411	420.623	ppbv 91
53) Toluene	9.81	91	200538	0.734	ppbv 98
57) Chlorobenzene	12.16	112	6735	0.034	ppbv # 57
58) Ethyl Benzene	13.01	91	42217	0.118	ppbv 92
59) m/p-Xylene	13.01	91	42217	0.134	ppbv # 33
60) o-Xylene	13.70	91	21963	0.074	ppbv # 1
61) Styrene	13.54	104	7109	0.045	ppbv # 1
62) Isopropylbenzene	14.67	105	1270902	2.889	ppbv 98
63) 1,1,2,2-Tetrachloroethane	13.68	83	27822	0.167	ppbv # 43

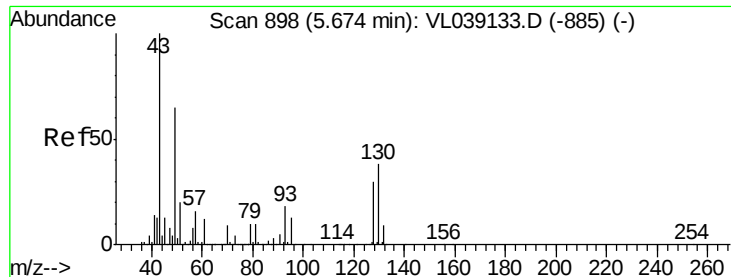
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061322\
 Data File : VL039259.D
 Acq On : 13 Jun 2022 19:54
 Operator : SY/AP
 Sample : N3330-02
 Misc : 400mL/MSVOA L
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Instrument :
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 ClientSampleId :
 OTC-SG-2

Quant Time: Jun 14 01:32:16 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	16.76	119	20029	0.050	ppbv #	1
69) p-Isopropyltoluene	17.65	119	27184	0.059	ppbv #	39
72) 4-Ethyltoluene	15.85	105	16845	0.049	ppbv #	34
73) 1,3,5-Trimethylbenzene	16.00	105	30907	0.099	ppbv	89
74) 1,2,4-Trimethylbenzene	16.77	105	64928	0.186	ppbv #	65
76) 1,4-Dichlorobenzene	17.14	146	13100	0.066	ppbv #	44
79) Naphthalene	22.21	128	8506	0.032	ppbv #	86
80) Naphthalene,2-methyl-	24.98	142	4529	0.045	ppbv #	63

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Jun 2022 19:54 OTC-SG-2

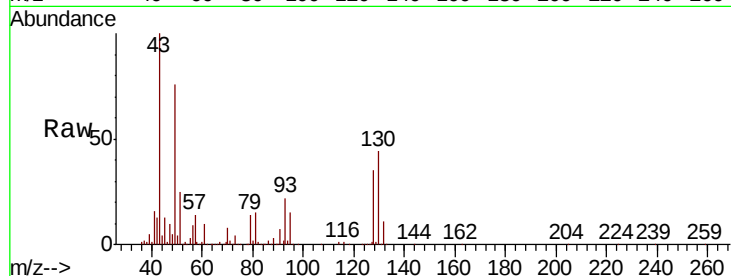
Tot Ion: 49 Resp: 1280071

Ion Ratio Lower Upper

49 100

128 48.1 24.7 74.1

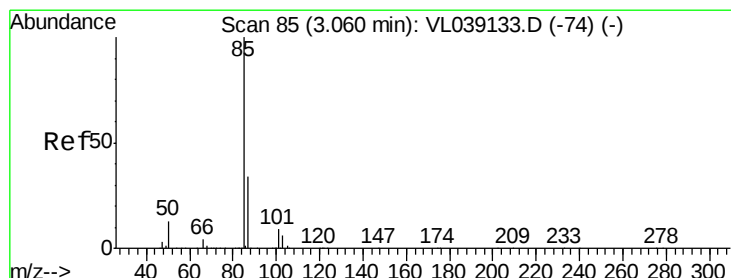
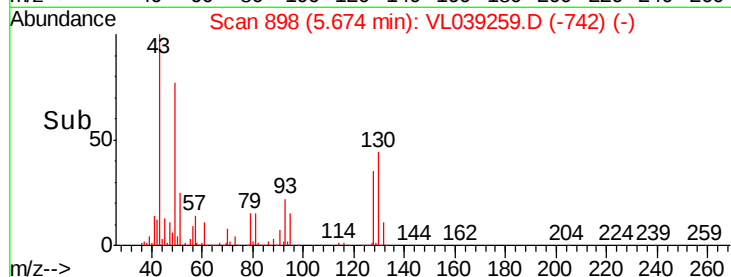
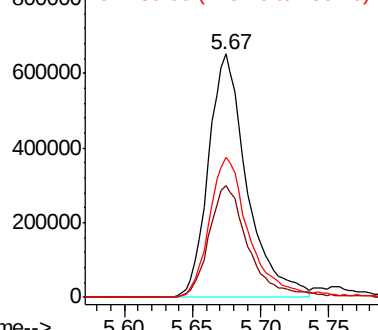
130 60.6 31.4 94.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.576 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.06 min

Lab File: VL039259.D

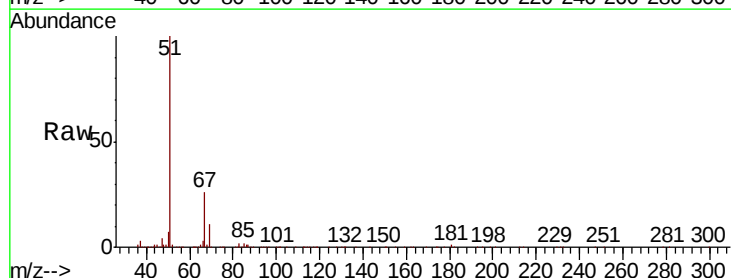
Acq: 13 Jun 2022 19:54

Tgt Ion: 85 Resp: 129526

Ion Ratio Lower Upper

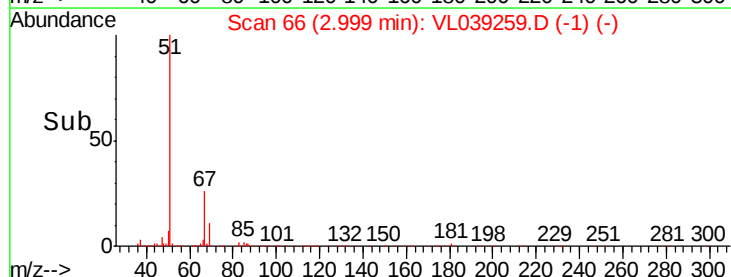
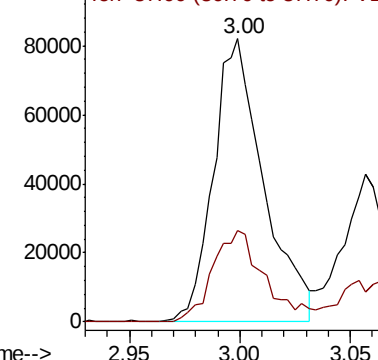
85 100

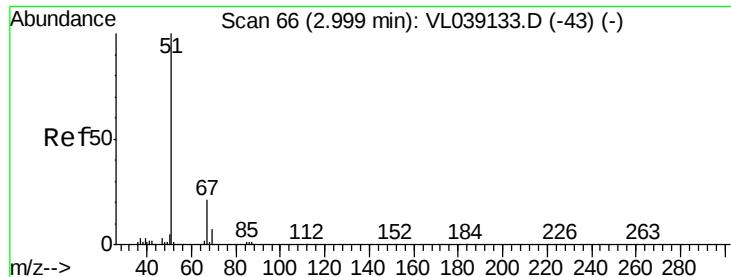
87 32.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 58.720 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

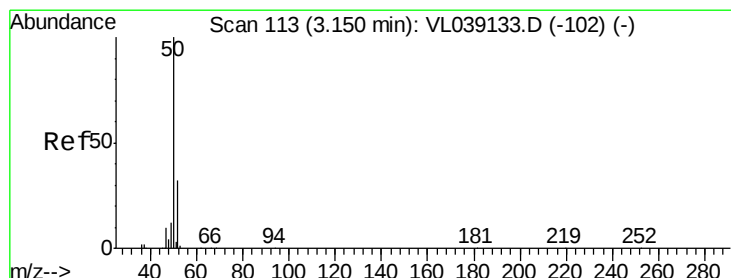
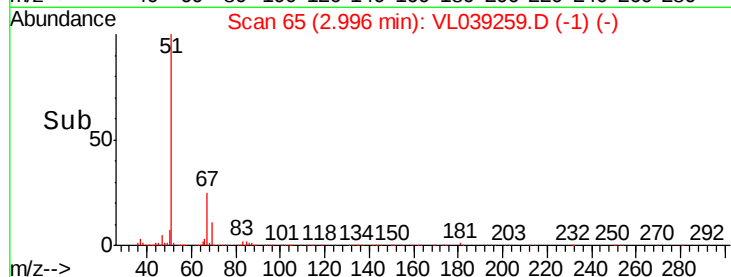
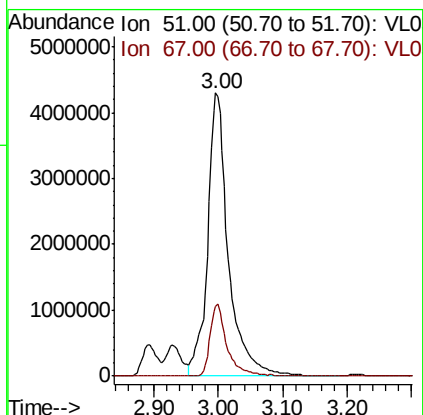
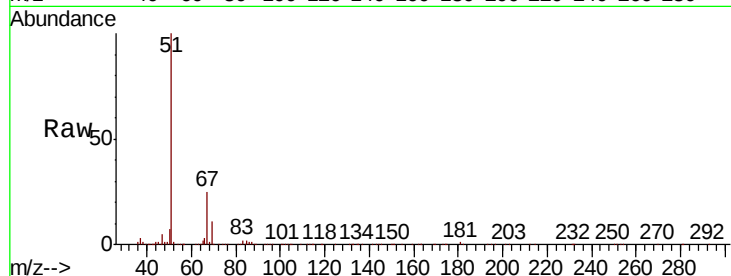
Acq: 13 Jun 2022 19:54

Tot Ion: 51 Resp: 9563801

Ion Ratio Lower Upper

51 100

67 21.0 16.2 24.4



#4

Chloromethane

Concen: 0.389 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL039259.D

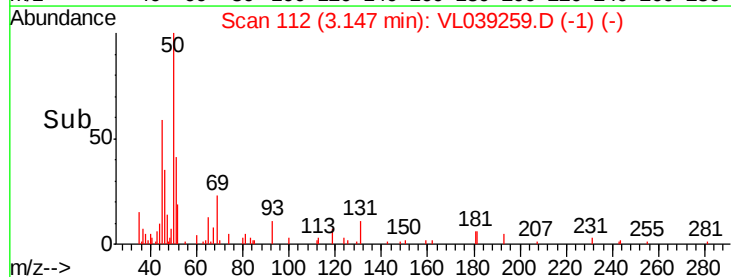
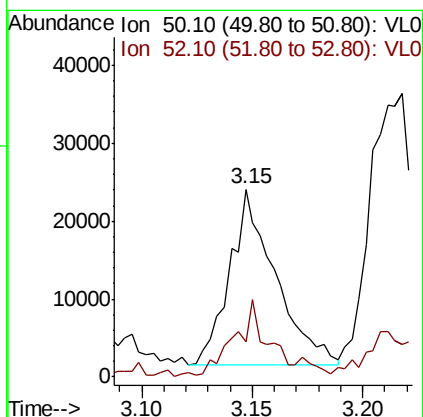
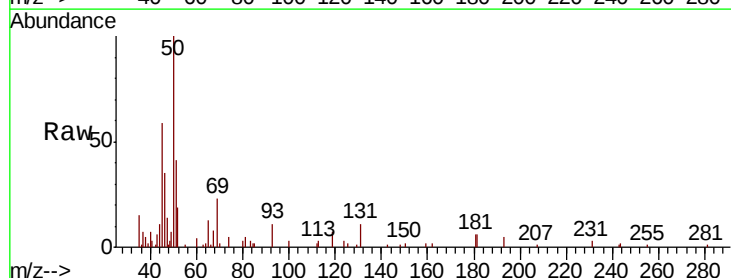
Acq: 13 Jun 2022 19:54

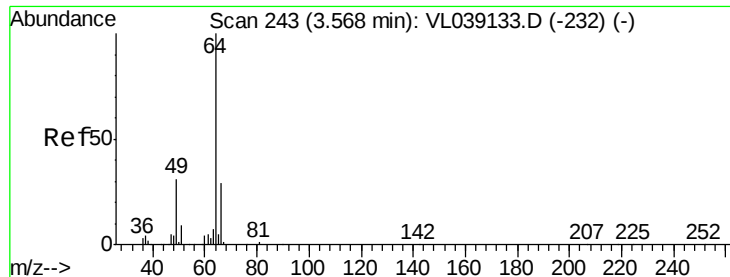
Tgt Ion: 50 Resp: 32527

Ion Ratio Lower Upper

50 100

52 17.5 25.9 38.9#





#7

Chloroethane

Concen: 0.088 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

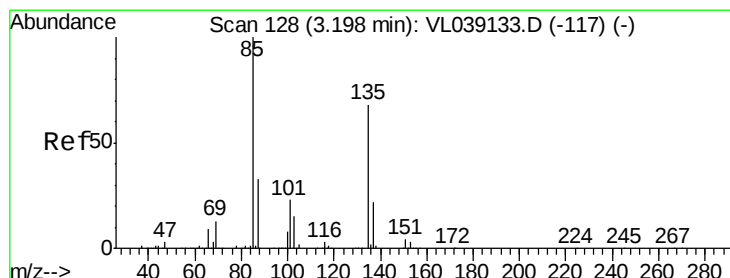
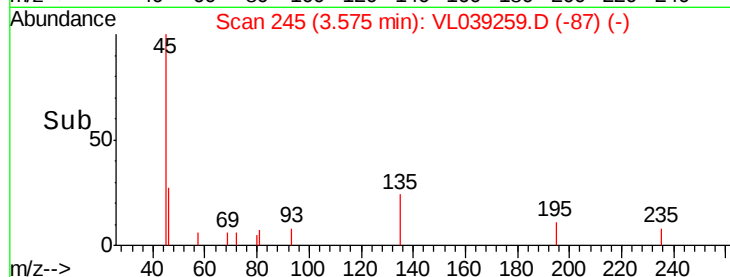
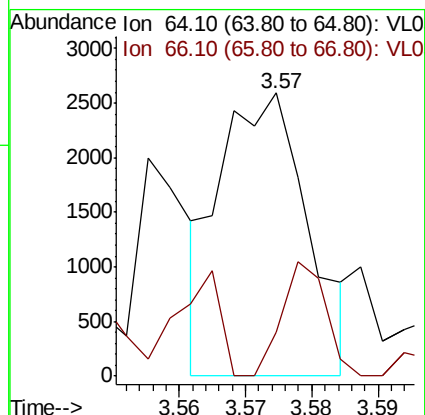
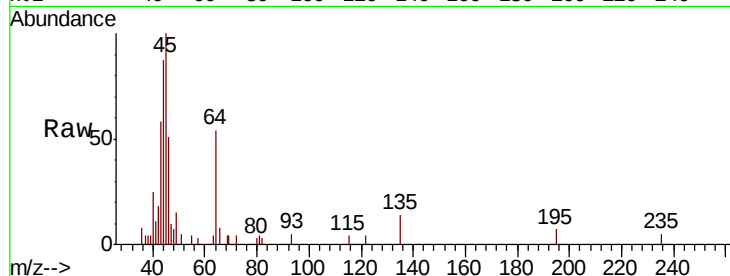
Acq: 13 Jun 2022 19:54

Tot Ion: 64 Resp: 2389

Ion Ratio Lower Upper

64 100

66 15.5 23.6 35.4#



#8

Dichlorotetrafluoroethane

Concen: 0.323 ppbv

RT: 3.06 min Scan# 84

Delta R.T. -0.14 min

Lab File: VL039259.D

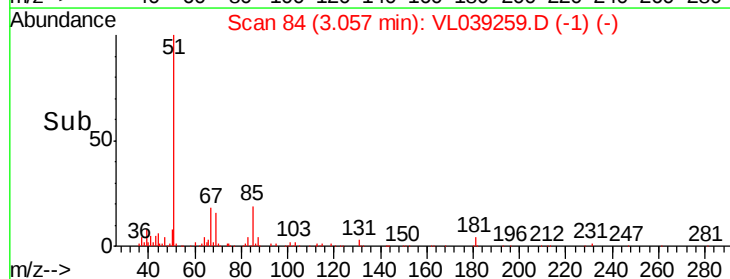
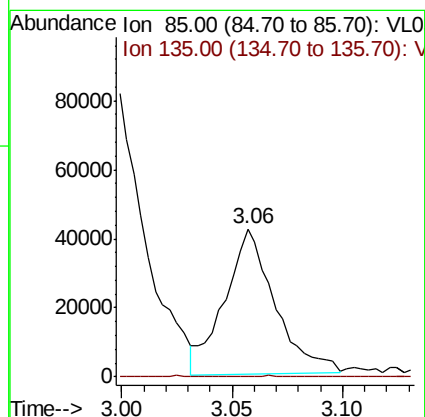
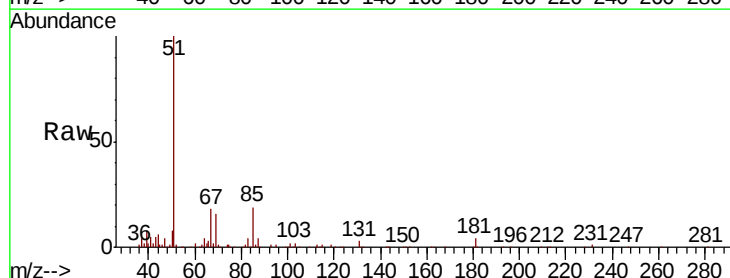
Acq: 13 Jun 2022 19:54

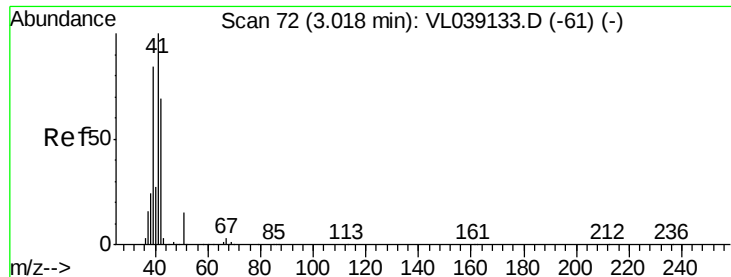
Tgt Ion: 85 Resp: 66307

Ion Ratio Lower Upper

85 100

135 0.4 55.0 82.4#





#9

Propene

Concen: 32.076 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

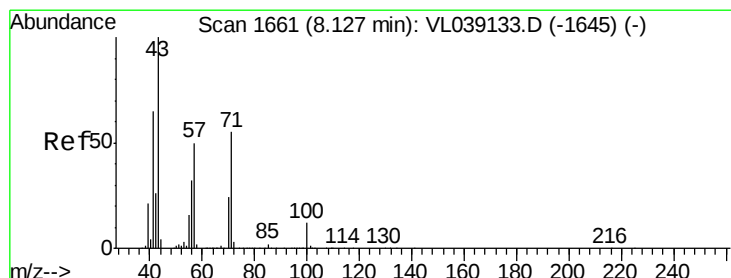
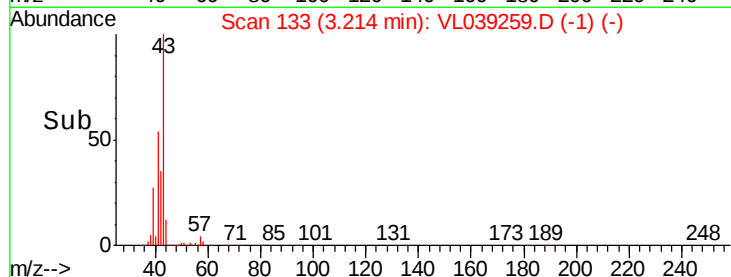
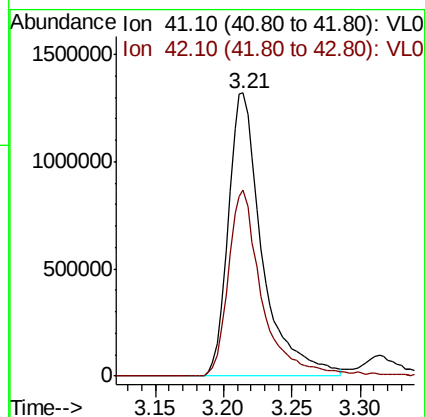
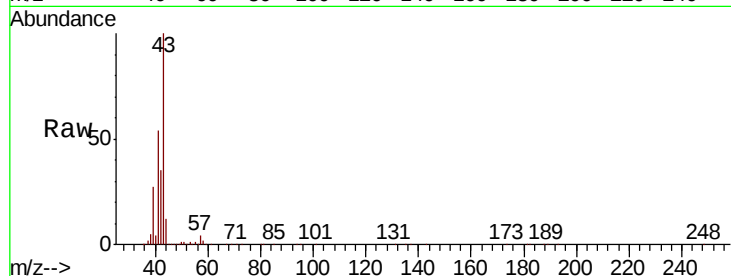
Acq: 13 Jun 2022 19:54

Tot Ion: 41 Resp: 2278044

Ion Ratio Lower Upper

41 100

42 66.2 55.4 83.2



#10

Heptane

Concen: 0.191 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL039259.D

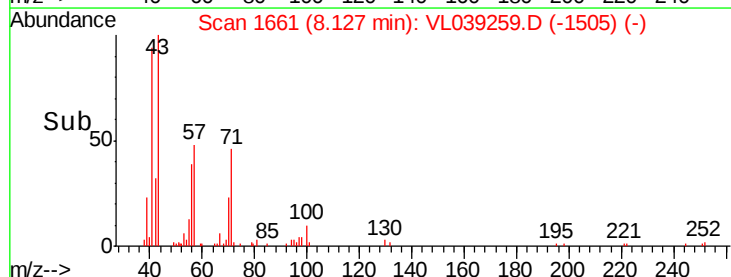
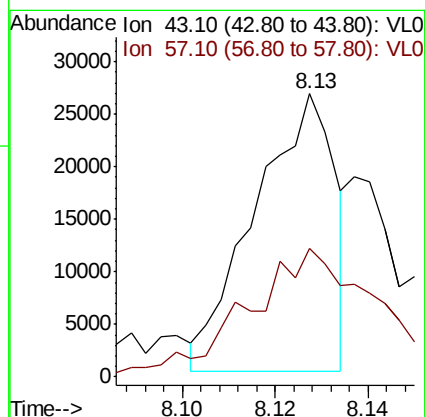
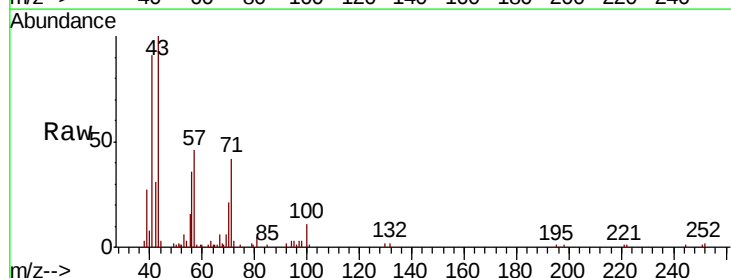
Acq: 13 Jun 2022 19:54

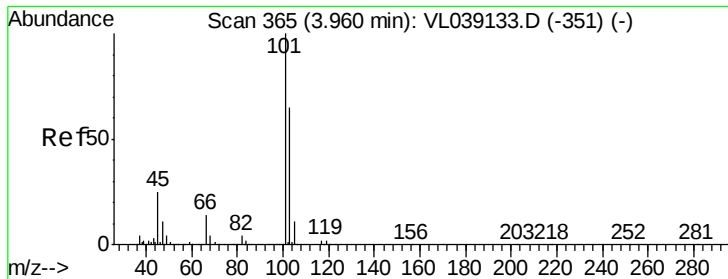
Tgt Ion: 43 Resp: 31724

Ion Ratio Lower Upper

43 100

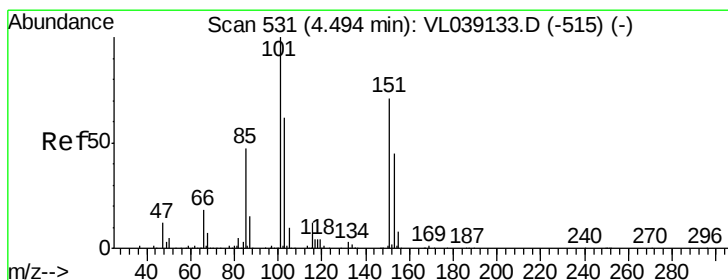
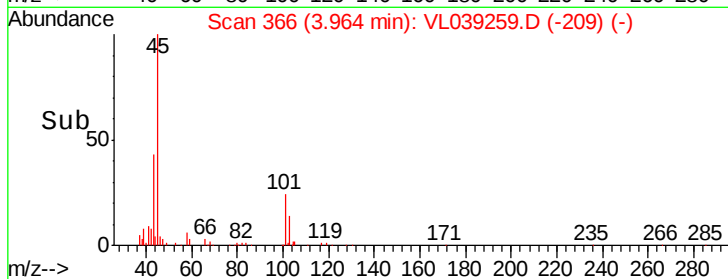
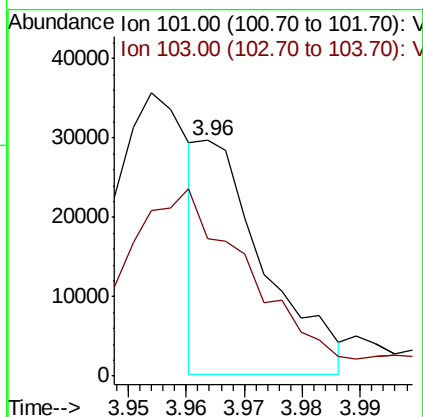
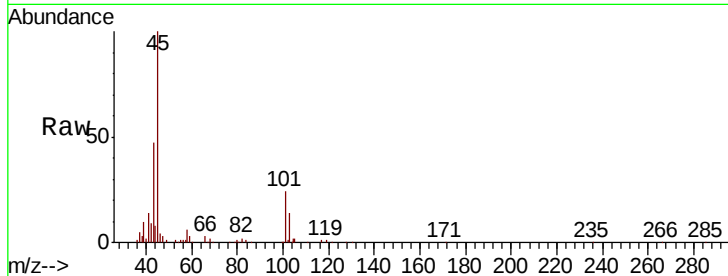
57 84.5 41.4 62.2#





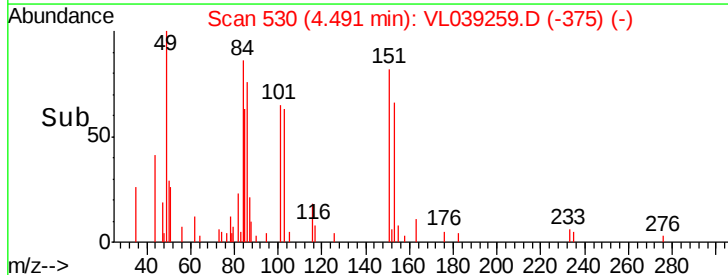
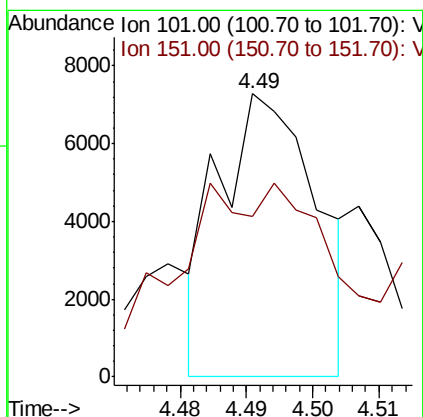
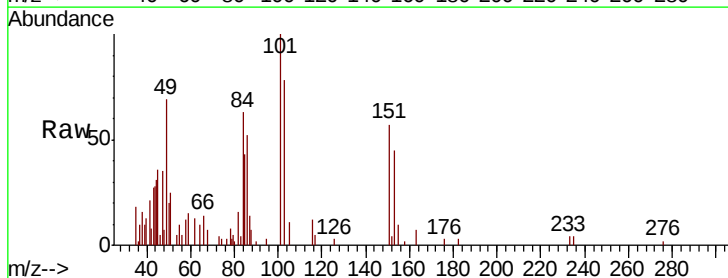
#11
 Trichlorofluoromethane
 Concen: 0.113 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 OTC-SG-2
 Acq: 13 Jun 2022 19:54

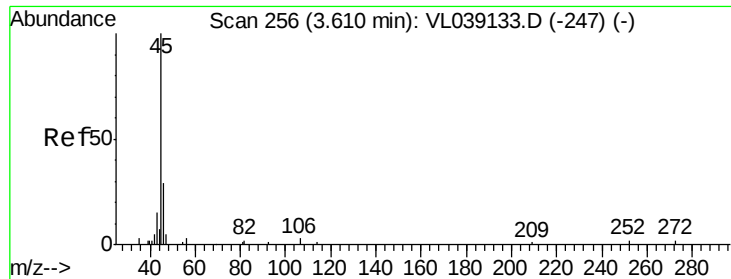
Tot Ion:101 Resp: 22983
 Ion Ratio Lower Upper
 101 100
 103 58.2 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.056 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VL039259.D
 Acq: 13 Jun 2022 19:54

Tgt Ion:101 Resp: 7473
 Ion Ratio Lower Upper
 101 100
 151 140.3 59.4 89.0#





#13

Ethanol

Concen: 1644.754 ppbv

RT: 3.61

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

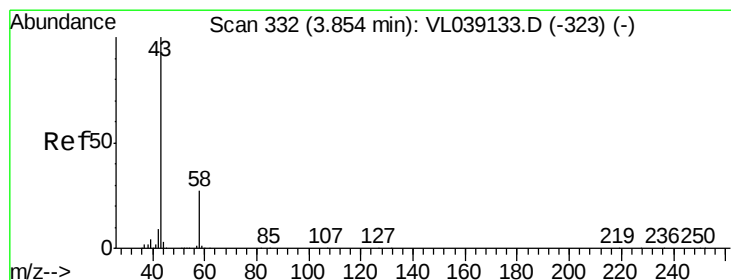
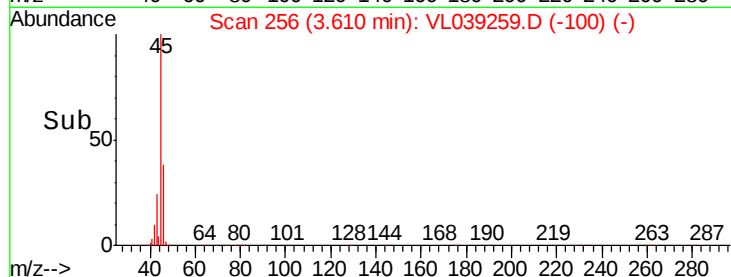
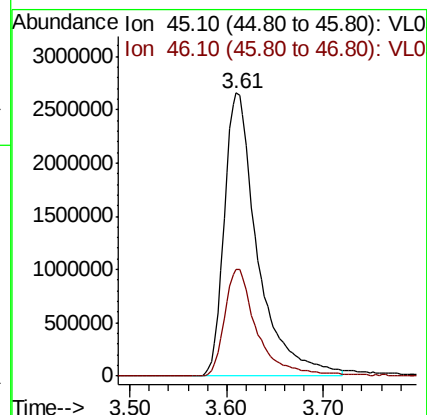
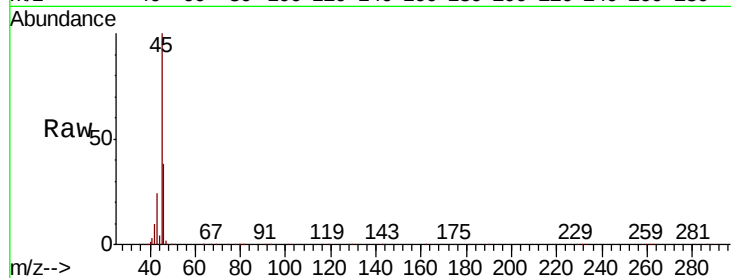
Acq: 13 Jun 2022 19:54

Tot Ion: 45 Resp: 6370244

Ion Ratio Lower Upper

45 100

46 37.9 0.0 0.0#



#15

Acetone

Concen: 25.101 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL039259.D

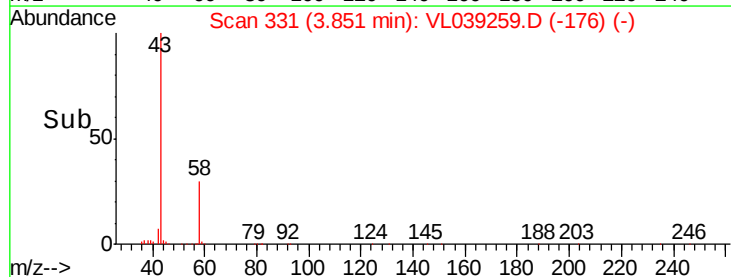
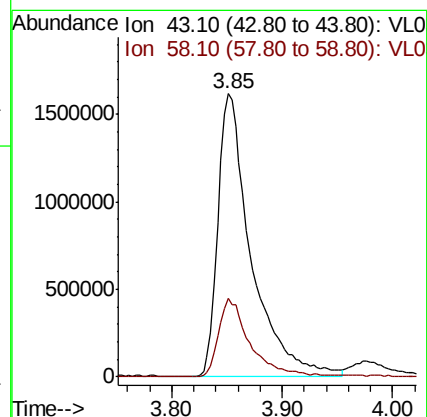
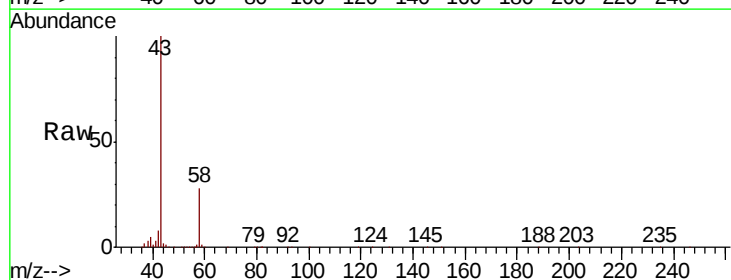
Acq: 13 Jun 2022 19:54

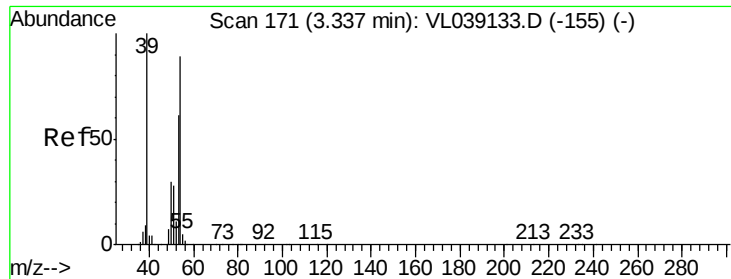
Tgt Ion: 43 Resp: 3347087

Ion Ratio Lower Upper

43 100

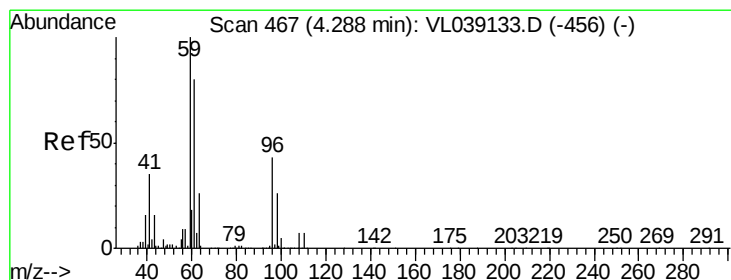
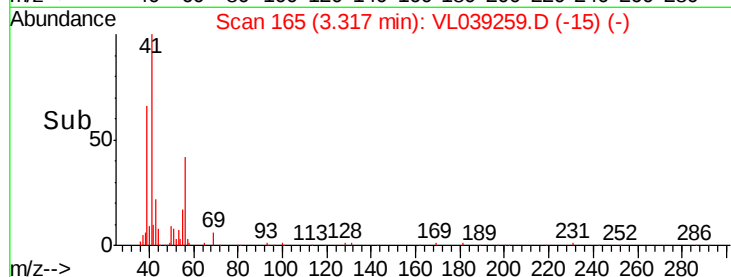
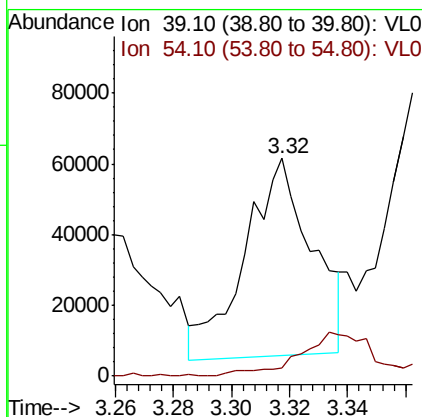
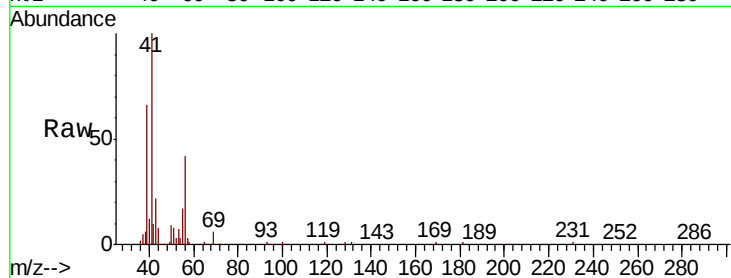
58 26.5 22.5 33.7





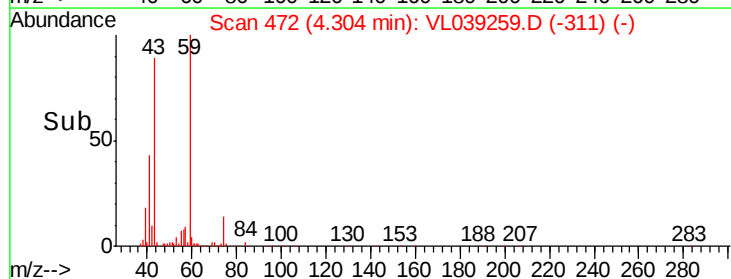
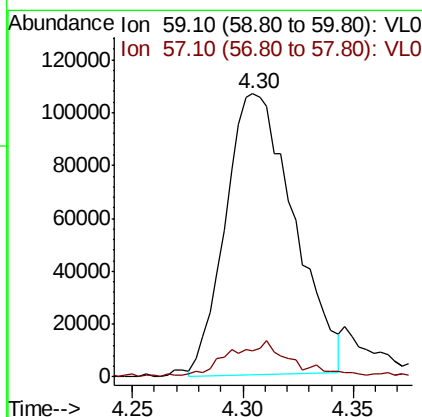
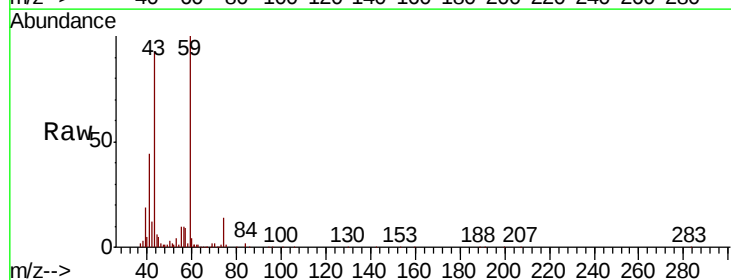
#16
 1,3-Butadiene
 Concen: 1.254 ppbv
 RT: 3.32
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 13 Jun 2022 19:54

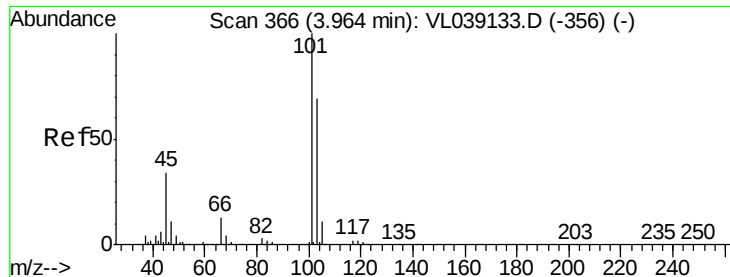
Tot Ion: 39 Resp: 89922
 Ion Ratio Lower Upper
 39 100
 54 28.6 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 2.208 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.02 min
 Lab File: VL039259.D
 Acq: 13 Jun 2022 19:54

Tgt Ion: 59 Resp: 228351
 Ion Ratio Lower Upper
 59 100
 57 13.4 9.1 13.7





#19

Isopropyl Alcohol

Concen: 9.377 ppbv

RT: 3.98 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

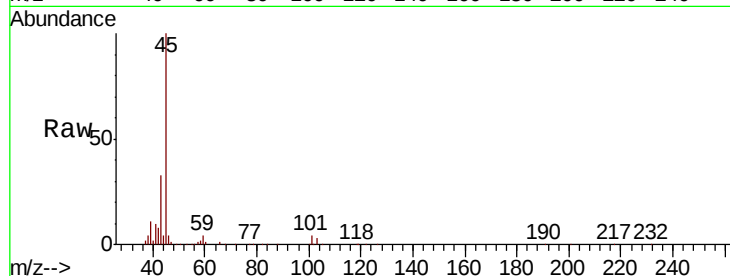
Acq: 13 Jun 2022 19:54

Tot Ion: 45 Resp: 586458

Ion Ratio Lower Upper

45 100

58 152.4 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

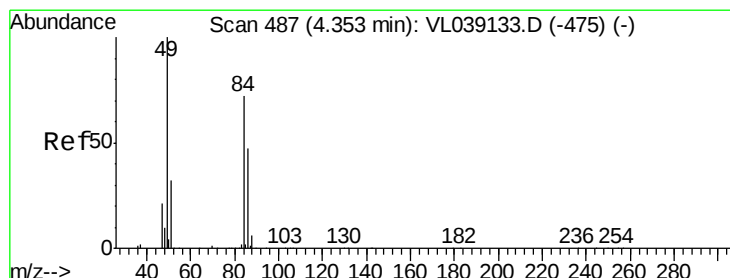
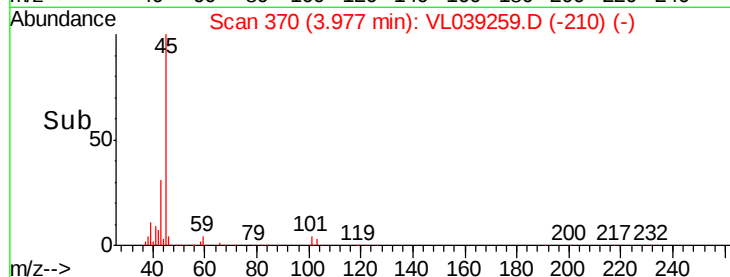
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 25.437 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL039259.D

Acq: 13 Jun 2022 19:54

Tgt Ion: 84 Resp: 1429354

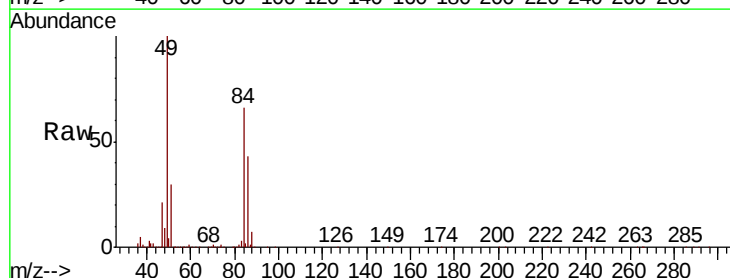
Ion Ratio Lower Upper

84 100

49 150.4 111.1 166.7

51 44.1 35.3 52.9

86 65.0 51.9 77.9



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

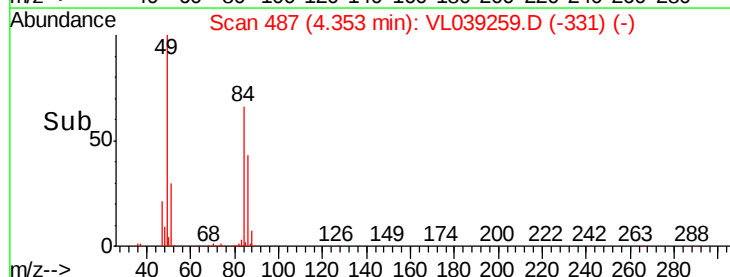
1500000

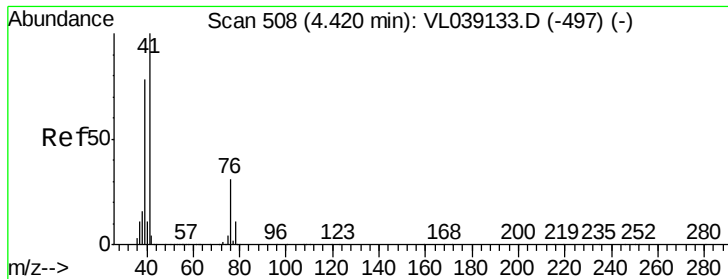
1000000

500000

0

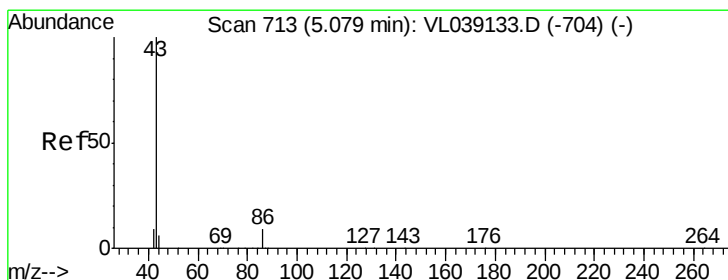
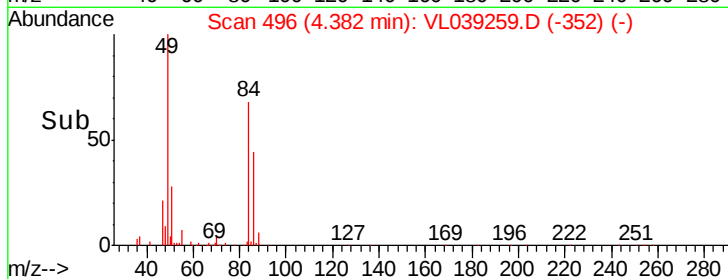
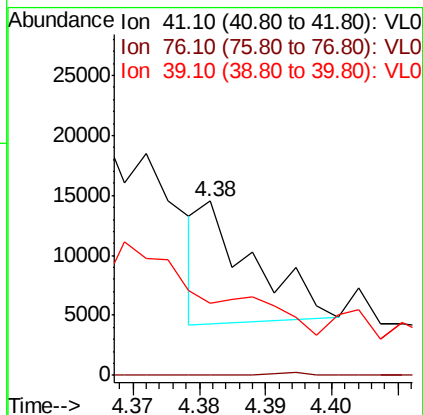
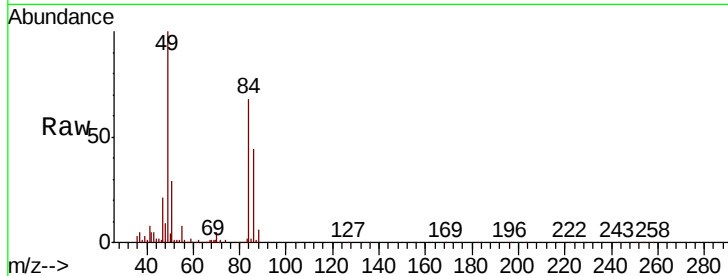
Time-->





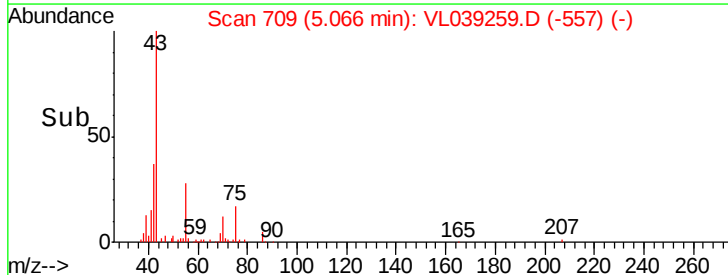
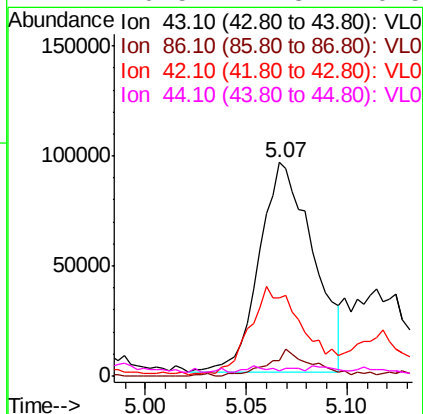
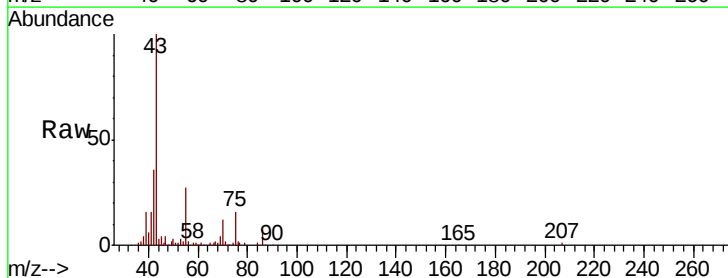
#21
Allvl Chloride
Concen: 0.061 ppbv
RT: 4.38
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 13 Jun 2022 19:54

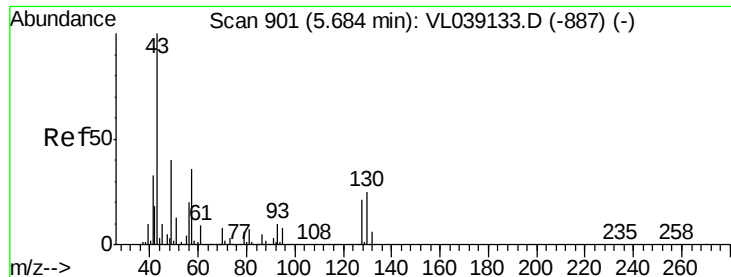
Tot Ion: 41 Resp: 5506
Ion Ratio Lower Upper
41 100
76 0.0 24.2 36.2#
39 440.7 62.2 93.2#



#23
Vinyl Acetate
Concen: 1.601 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL039259.D
Acq: 13 Jun 2022 19:54

Tgt Ion: 43 Resp: 176622
Ion Ratio Lower Upper
43 100
86 7.2 6.0 9.0
42 36.5 8.2 12.4#
44 0.5 4.3 6.5#

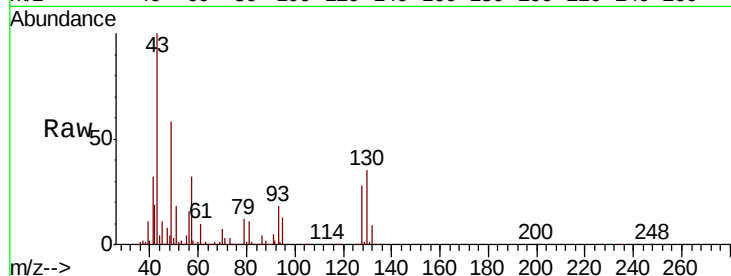




#25
Ethyl Acetate
Concen: 7.645 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 13 Jun 2022 19:54

Tot Ion: 43 Resp: 2297545

Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.2	12.2
61	8.8	8.4	12.6
70	6.9	5.6	8.4



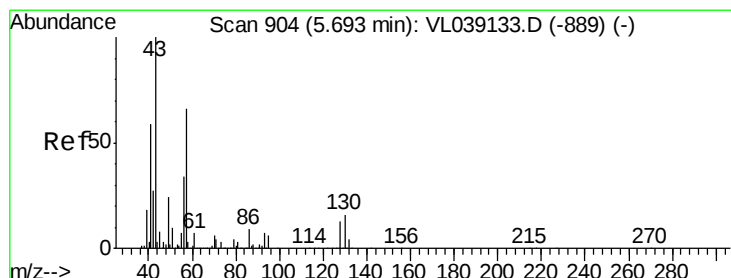
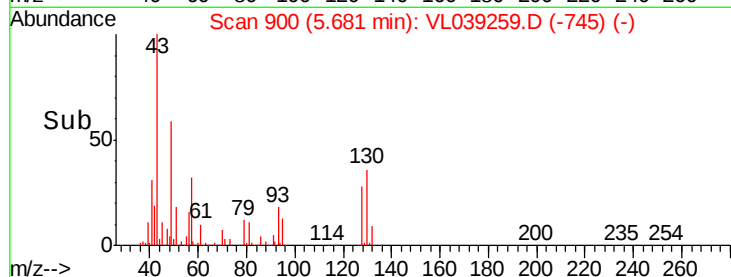
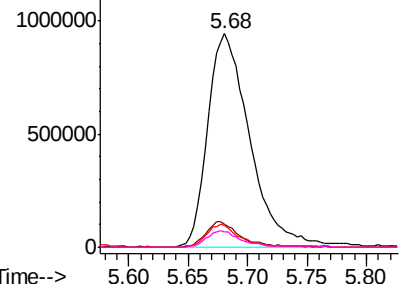
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

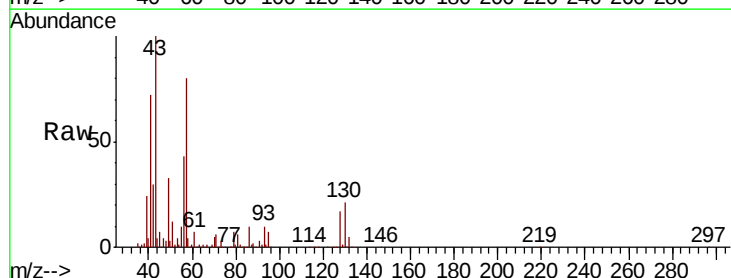
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 8.063 ppbv
RT: 5.69 min Scan# 904
Delta R.T.: 0.00 min
Lab File: VL039259.D
Acq: 13 Jun 2022 19:54

Tgt Ion: 57 Resp: 1064909

Ion	Ratio	Lower	Upper
57	100		
41	100.4	72.4	108.6
43	221.3	187.0	280.6
56	55.8	41.8	62.6



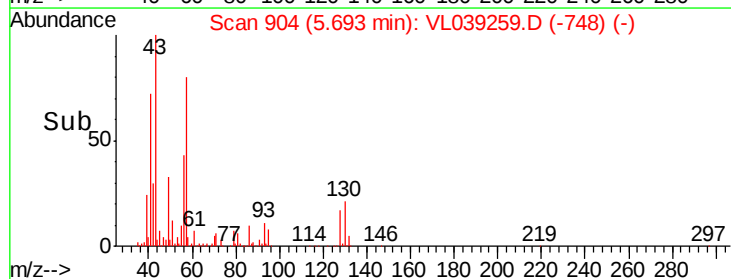
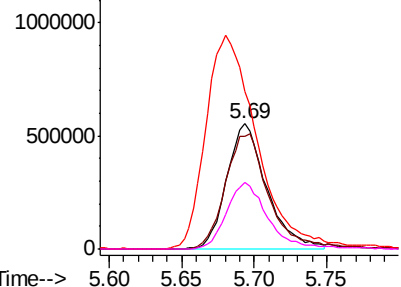
Abundance

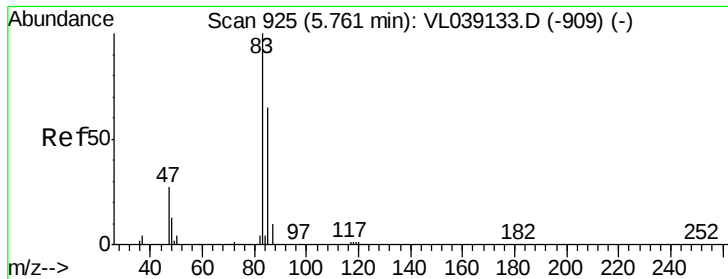
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

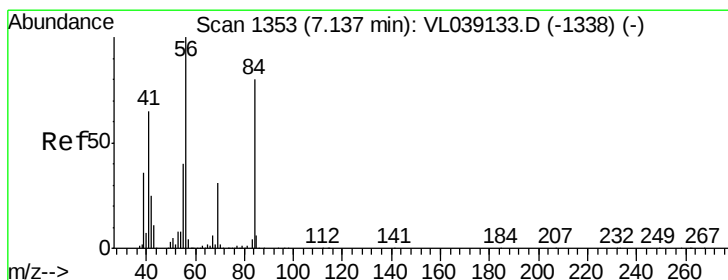
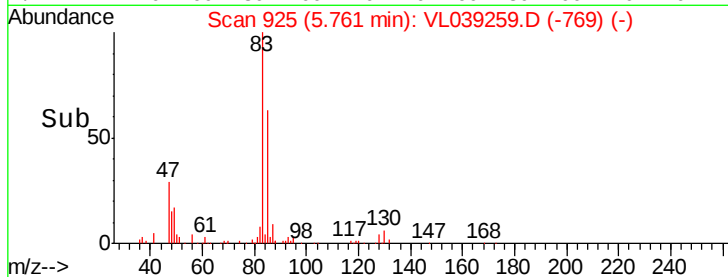
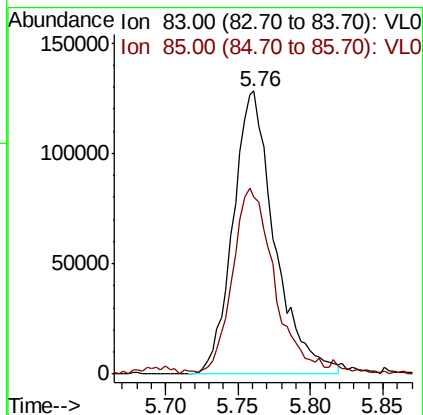
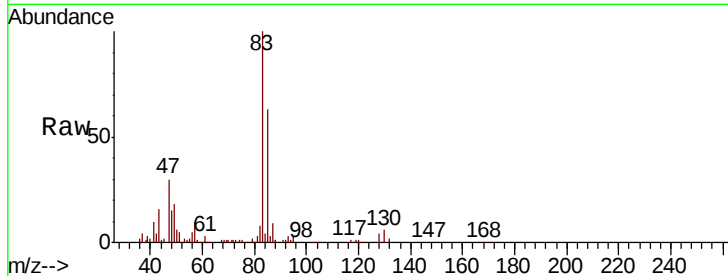
Ion 56.10 (55.80 to 56.80): VL0





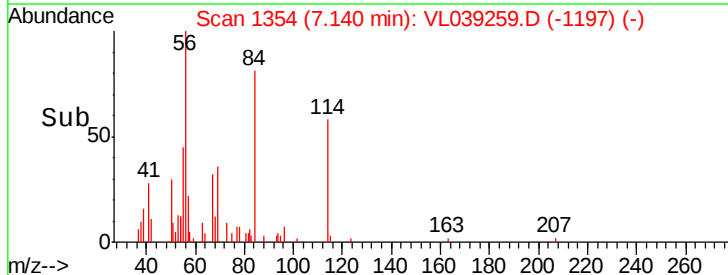
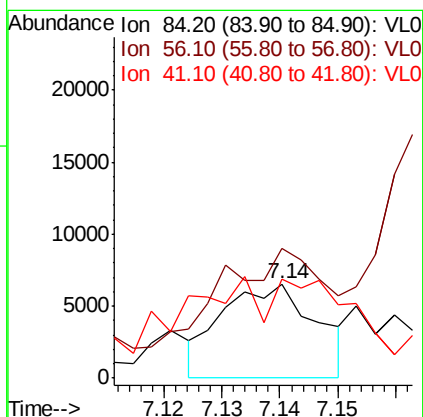
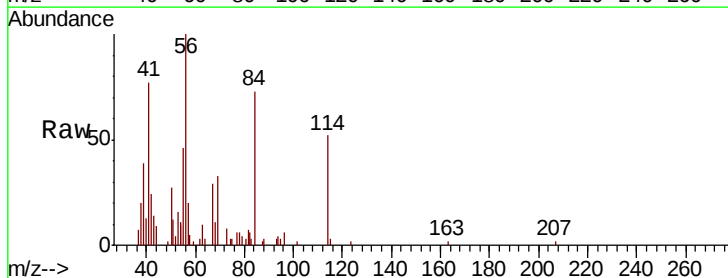
#29
Chloroform
Concen: 1.153 ppbv
RT: 5.76
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 13 Jun 2022 19:54

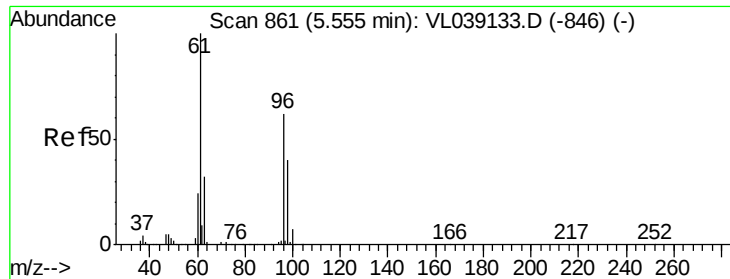
Tot Ion: 83 Resp: 256230
Ion Ratio Lower Upper
83 100
85 61.2 52.4 78.6



#30
Cyclohexane
Concen: 0.066 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.00 min
Lab File: VL039259.D
Acq: 13 Jun 2022 19:54

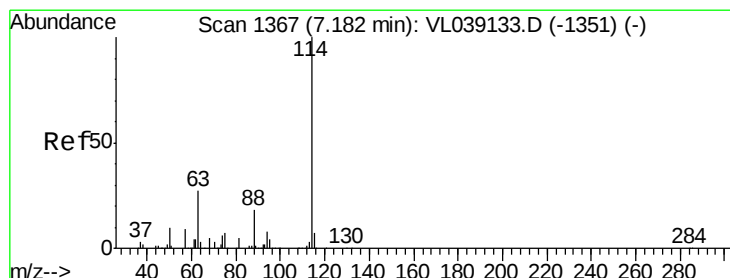
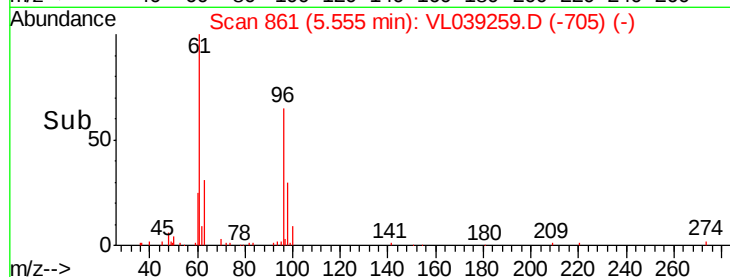
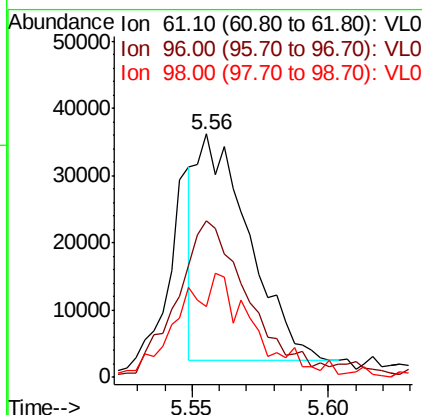
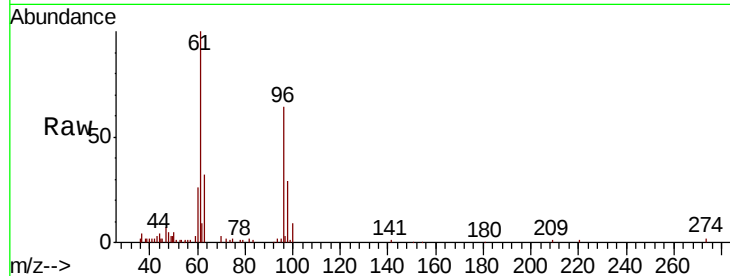
Tgt Ion: 84 Resp: 7312
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 256.5 68.9 103.3#





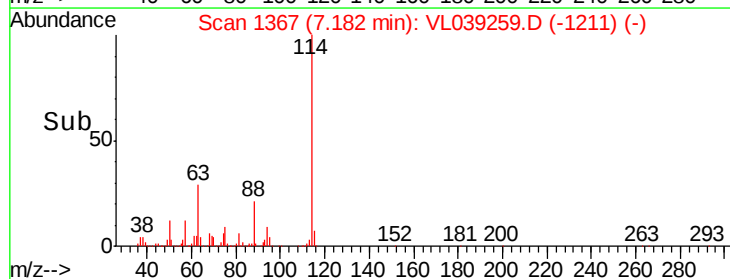
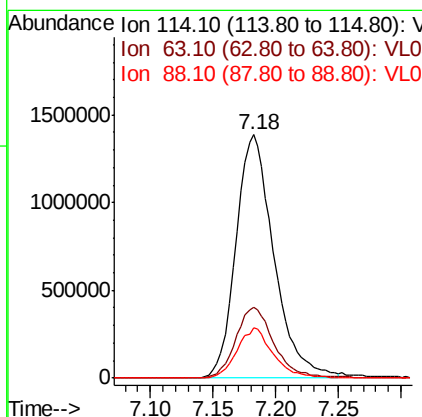
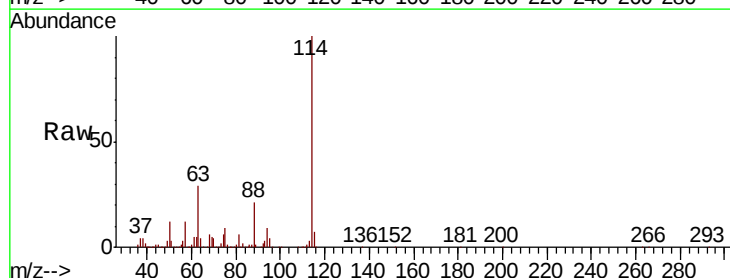
#31
 cis-1,2-Dichloroethene
 Concen: 0.333 ppbv
 RT: 5.56
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 OTC-SG-2
 Acq: 13 Jun 2022 19:54

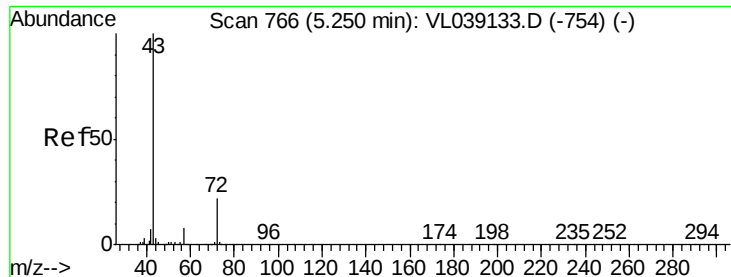
Tot Ion	61	Resp	44849
Ion	Ratio	Lower	Upper
61	100		
96	57.8	49.9	74.9
98	27.4	32.0	48.0#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: VL039259.D
 Acq: 13 Jun 2022 19:54

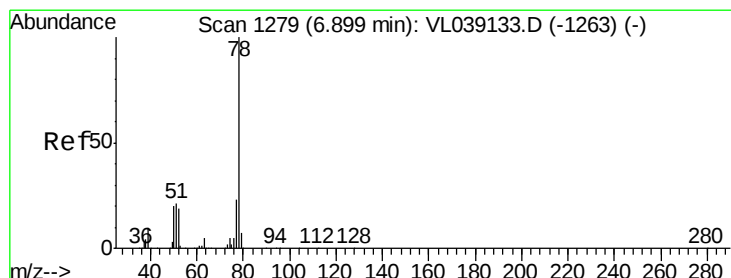
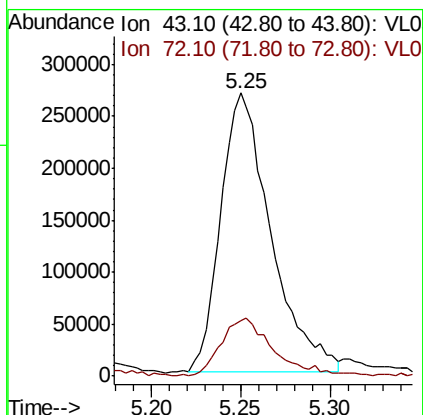
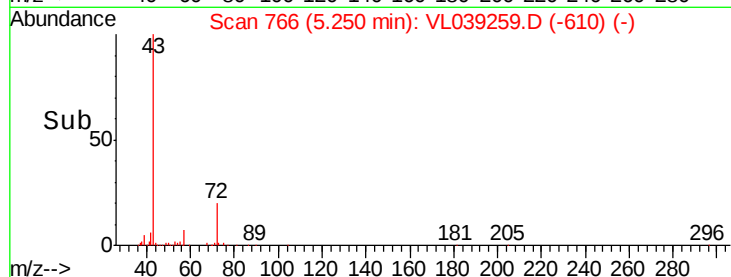
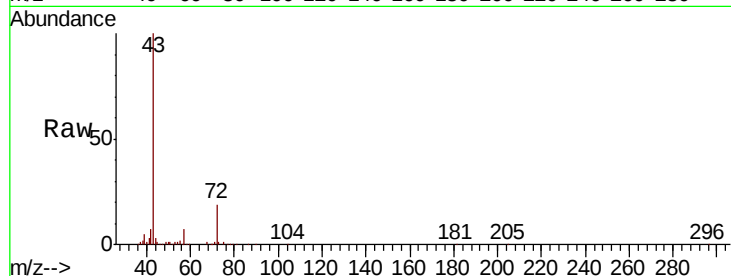
Tgt Ion	114	Resp	2922708
Ion	Ratio	Lower	Upper
114	100		
63	29.4	21.7	32.5
88	19.9	14.8	22.2





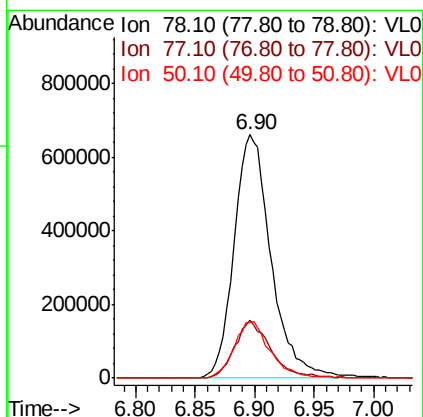
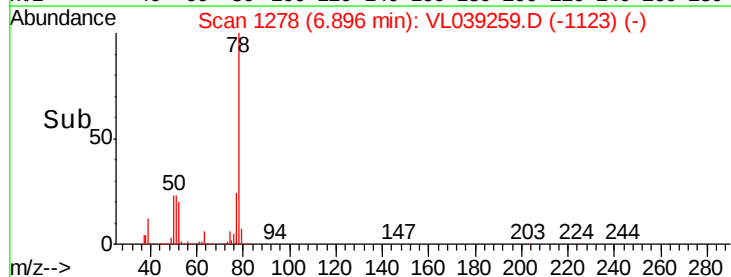
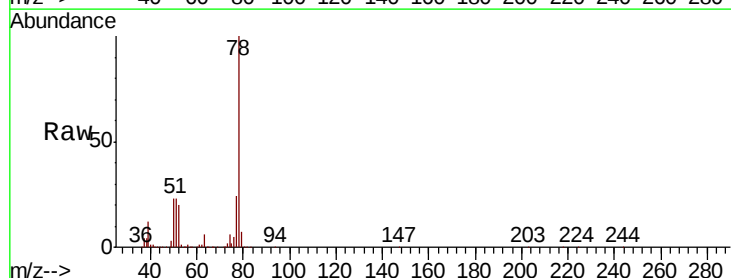
#34
2-Butanone
Concen: 3.287 ppbv
RT: 5.25
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 13 Jun 2022 19:54

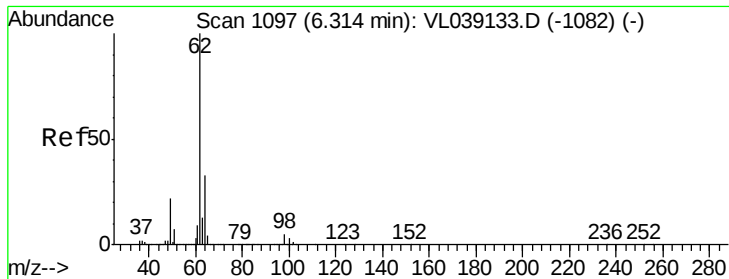
Tot Ion: 43 Resp: 521959
Ion Ratio Lower Upper
43 100
72 21.5 18.2 27.2



#36
Benzene
Concen: 5.994 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. -0.00 min
Lab File: VL039259.D
Acq: 13 Jun 2022 19:54

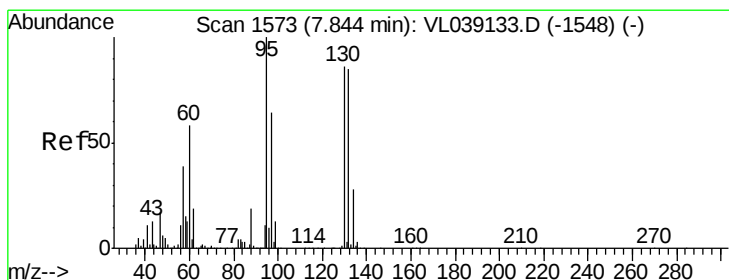
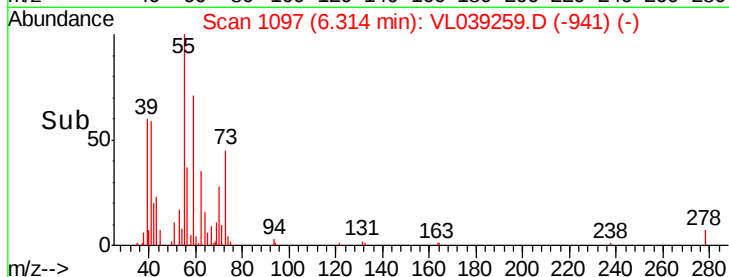
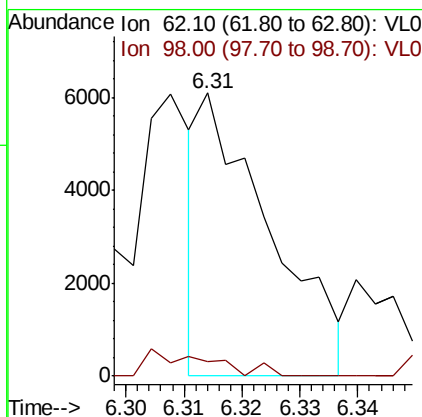
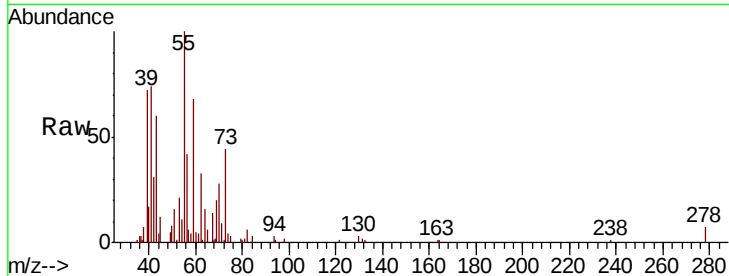
Tgt Ion: 78 Resp: 1422213
Ion Ratio Lower Upper
78 100
77 23.7 18.6 27.8
50 22.9 15.8 23.8





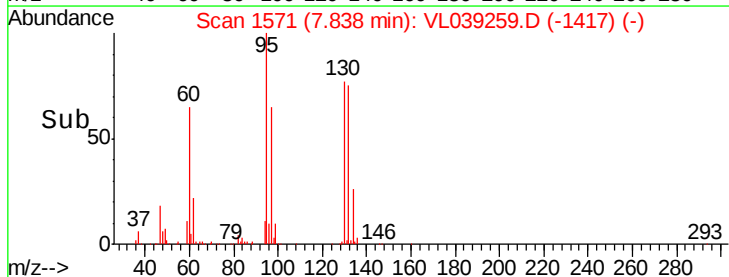
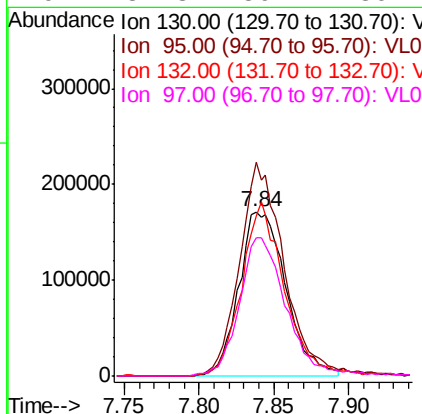
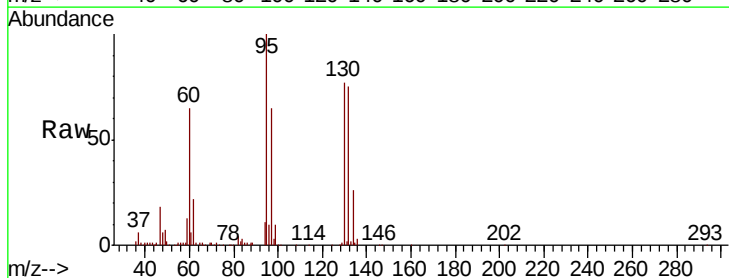
#37
 1,2-Dichloroethane
 Concen: 0.033 ppbv
 RT: 6.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jun 2022 19:54

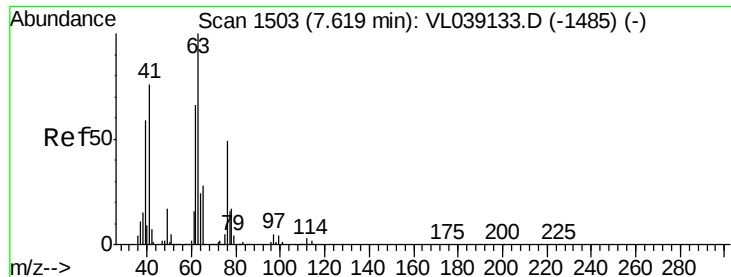
Tot Ion: 62 Resp: 5138
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.3 6.5#



#38
 Trichloroethene
 Concen: 3.440 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL039259.D
 Acq: 13 Jun 2022 19:54

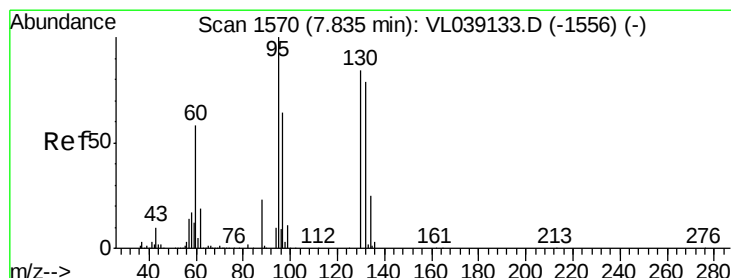
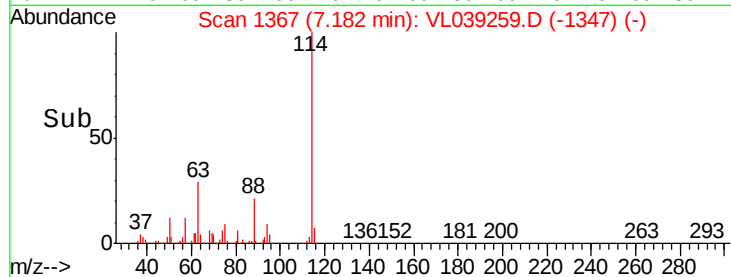
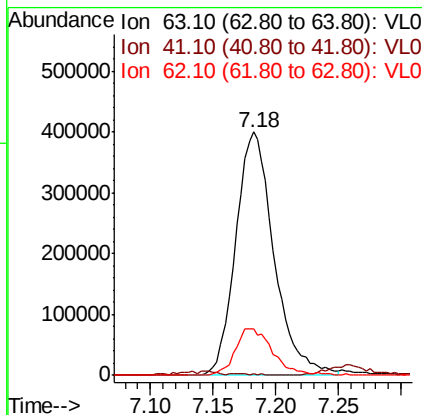
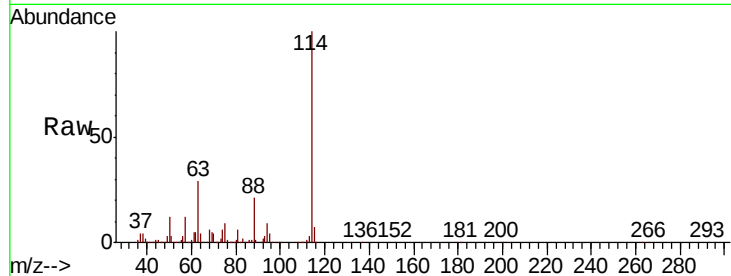
Tgt Ion: 130 Resp: 374926
 Ion Ratio Lower Upper
 130 100
 95 129.9 93.3 139.9
 132 97.5 79.0 118.4
 97 84.3 59.4 89.2





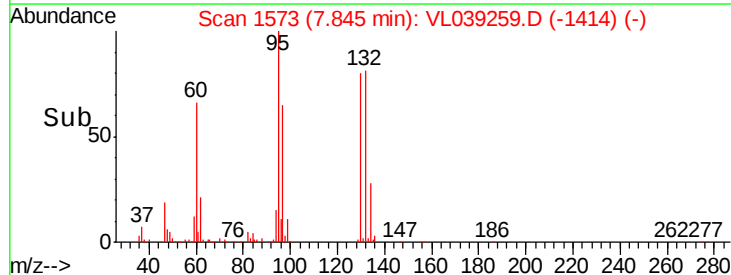
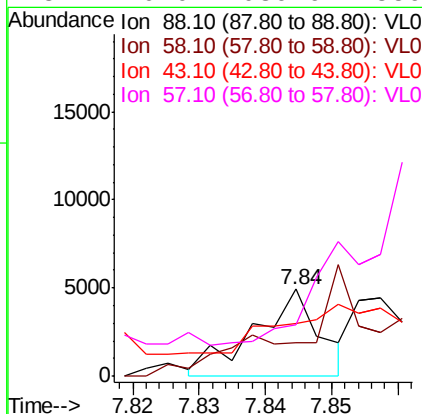
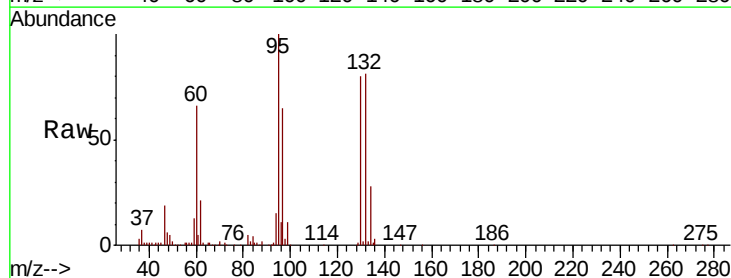
#39
 1,2-Dichloropropane
 Concen: 8.975 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 OTC-SG-2
 Acq: 13 Jun 2022 19:54

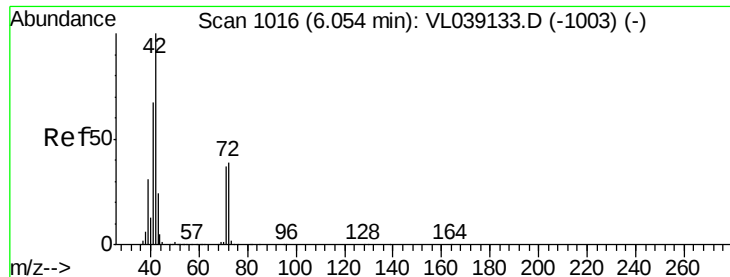
Tot Ion: 63 Resp: 847054
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.8 91.2#
 62 18.9 52.9 79.3#



#40
 1,4-Dioxane
 Concen: 0.108 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VL039259.D
 Acq: 13 Jun 2022 19:54

Tgt Ion: 88 Resp: 3359
 Ion Ratio Lower Upper
 88 100
 58 0.0 111.2 166.8#
 43 0.0 234.2 351.4#
 57 0.0 1039.9 1559.9#





#41

Tetrahydrofuran

Concen: 0.067 ppbv

RT: 5.74 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId:

Acq: 13 Jun 2022 19:54

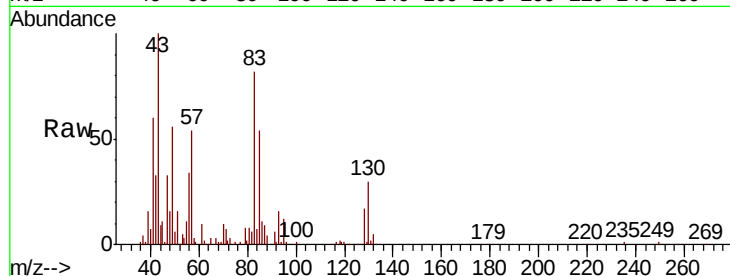
Tot Ion: 42 Resp: 6393

Ion Ratio Lower Upper

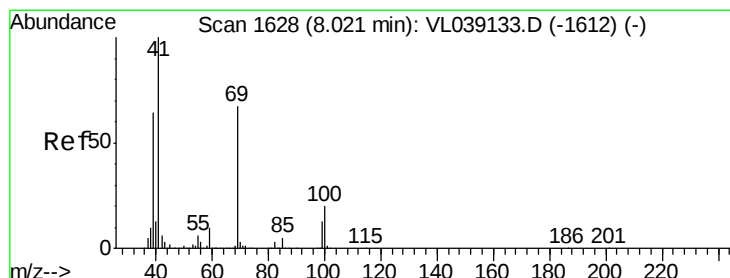
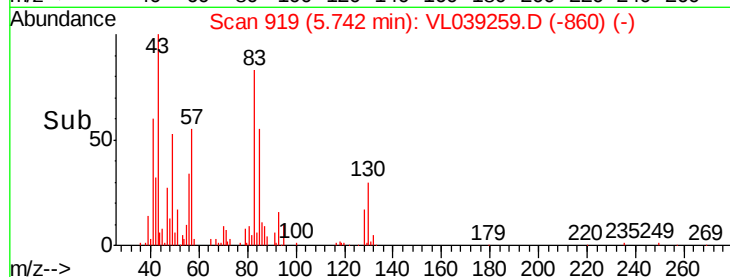
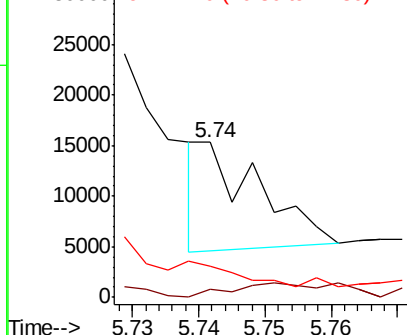
42 100

72 35.8 32.0 48.0

71 0.0 31.1 46.7#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#43

Methyl Methacrylate

Concen: 0.040 ppbv

RT: 8.02 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VL039259.D

Acq: 13 Jun 2022 19:54

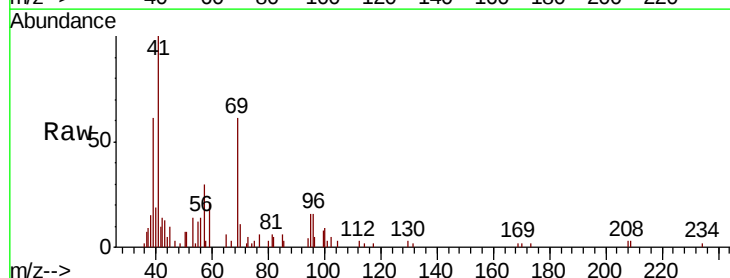
Tgt Ion: 69 Resp: 3680

Ion Ratio Lower Upper

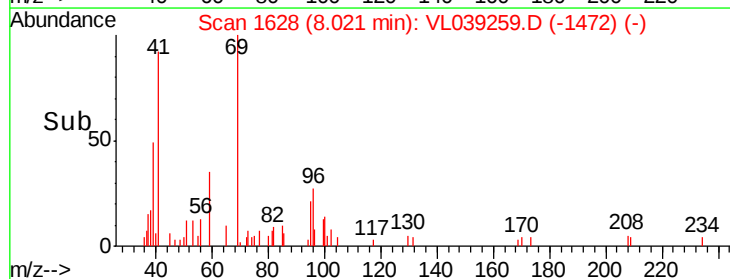
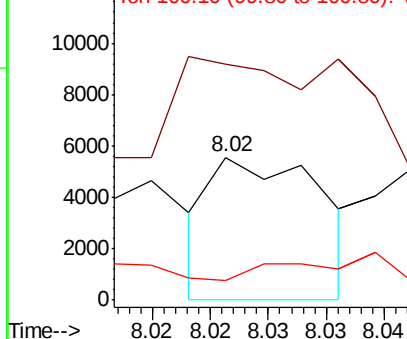
69 100

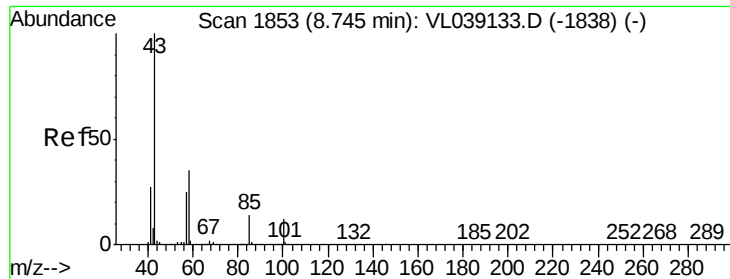
41 504.3 121.9 182.9#

100 0.0 24.1 36.1#



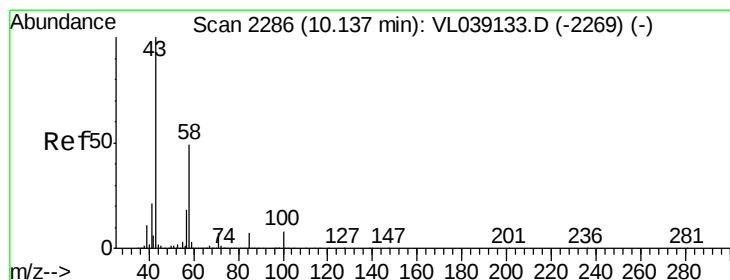
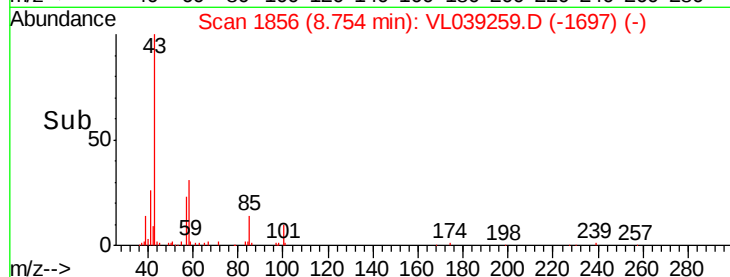
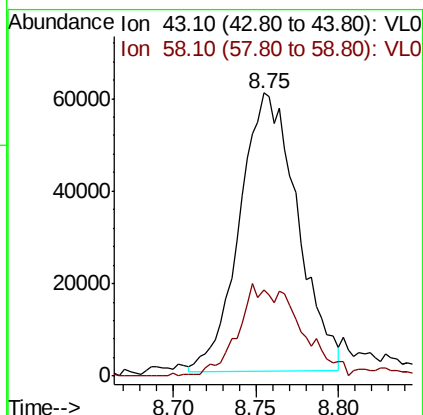
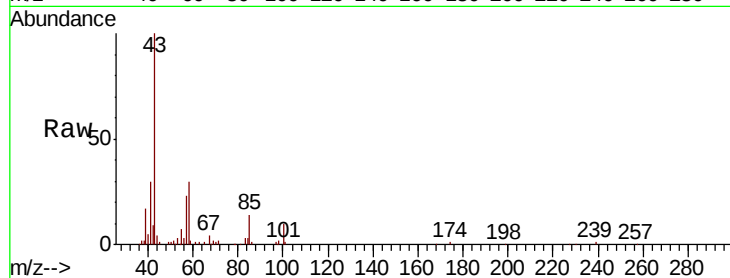
Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0





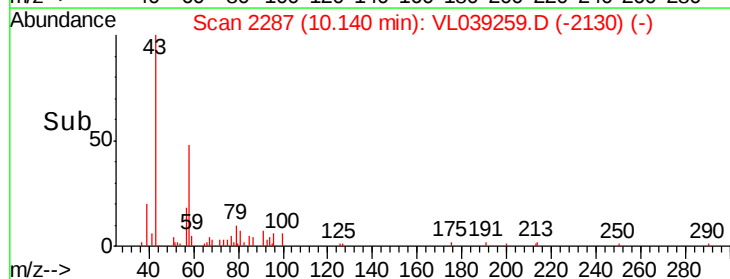
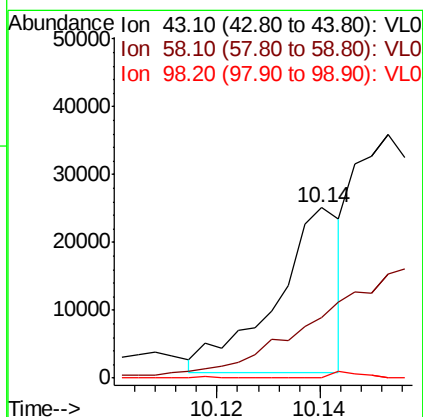
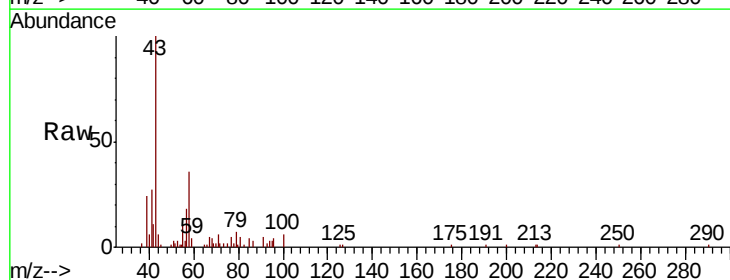
#50
 4-Methyl-2-Pentanone
 Concen: 0.612 ppbv
 RT: 8.75
 Delta R.T. MSVOA_1
 Lab File: ClientSampled :
 OTC-SG-2
 Acq: 13 Jun 2022 19:54

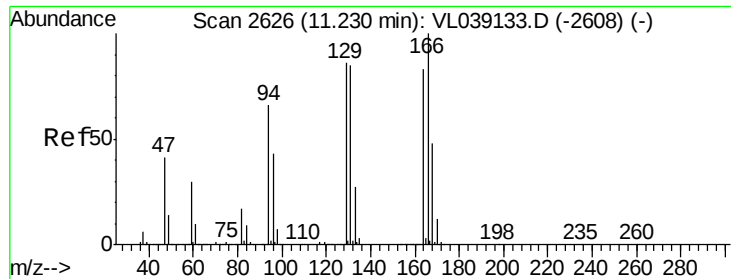
Tot Ion: 43 Resp: 145415
 Ion Ratio Lower Upper
 43 100
 58 37.1 28.7 43.1



#51
 2-Hexanone
 Concen: 0.117 ppbv
 RT: 10.14 min Scan# 2287
 Delta R.T. 0.00 min
 Lab File: VL039259.D
 Acq: 13 Jun 2022 19:54

Tgt Ion: 43 Resp: 21641
 Ion Ratio Lower Upper
 43 100
 58 0.0 40.0 60.0#
 98 1.9 0.1 0.1#





#52

Tetrachloroethene

Concen: 420.623 ppbv

RT: 11.29

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 13 Jun 2022 19:54

Tot Ion:164 Resp:38968411

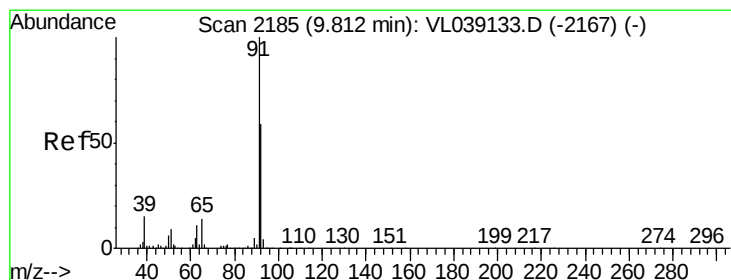
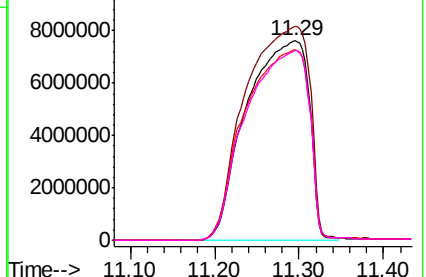
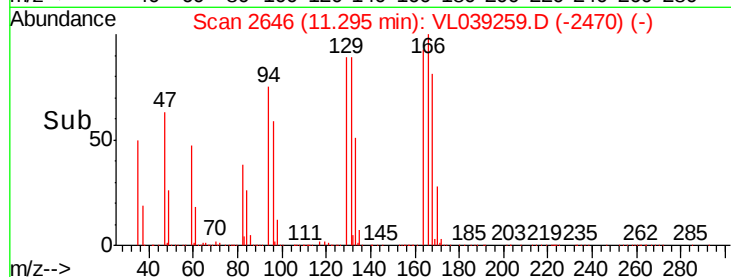
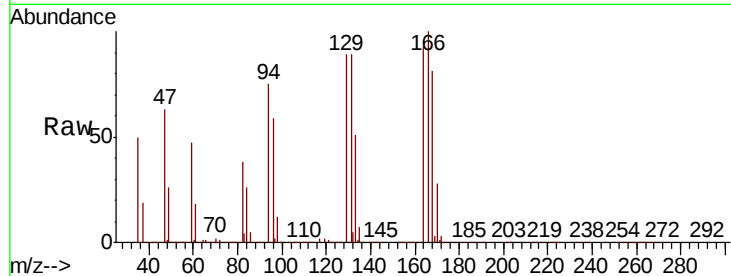
Ion Ratio Lower Upper

164 100

166 107.2 96.3 144.5

129 95.7 82.5 123.7

131 95.1 82.1 123.1



#53

Toluene

Concen: 0.734 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL039259.D

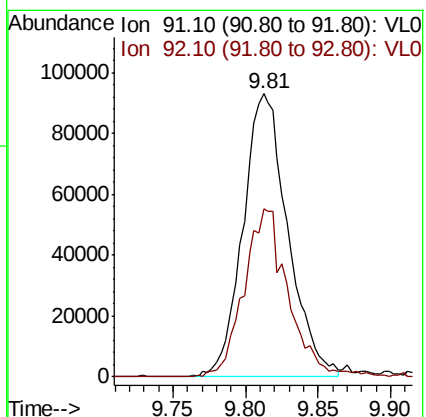
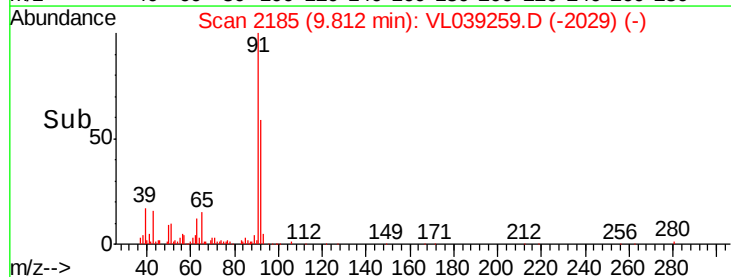
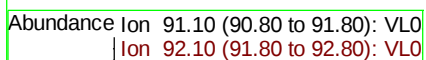
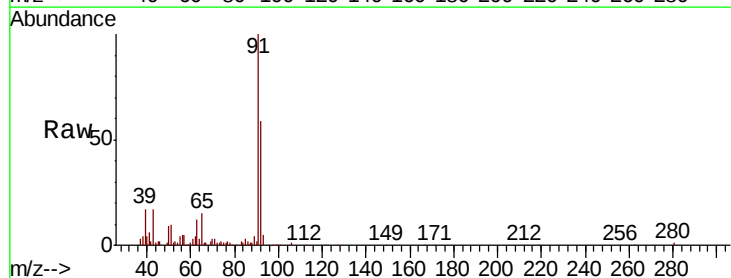
Acq: 13 Jun 2022 19:54

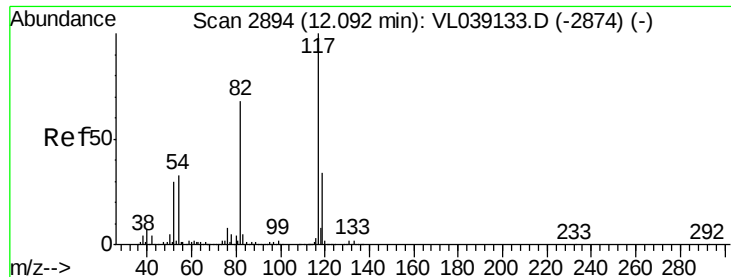
Tgt Ion: 91 Resp: 200538

Ion Ratio Lower Upper

91 100

92 58.7 48.1 72.1

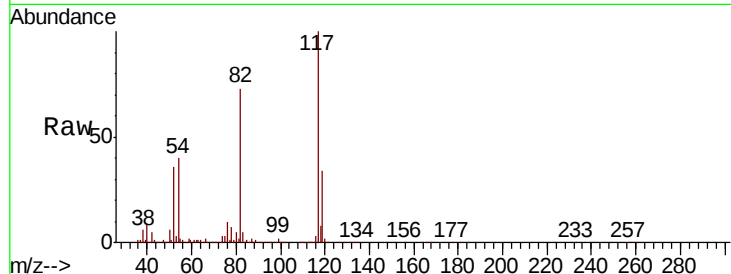




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.: 0.00 min
Lab File: ClientSampleId :
Acq: 13 Jun 2022 19:54

Tot Ion:117 Resp: 2596433

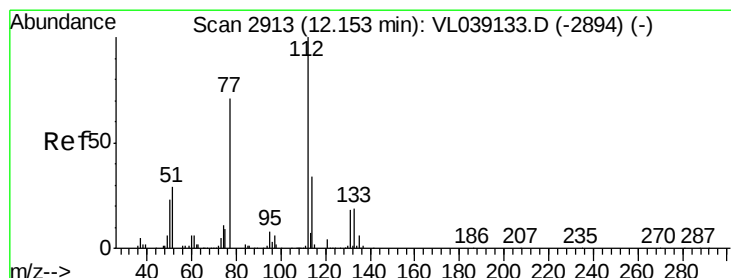
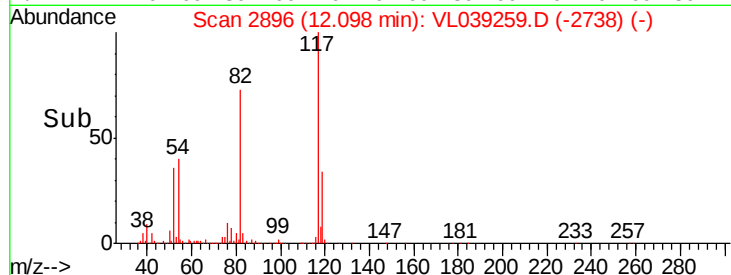
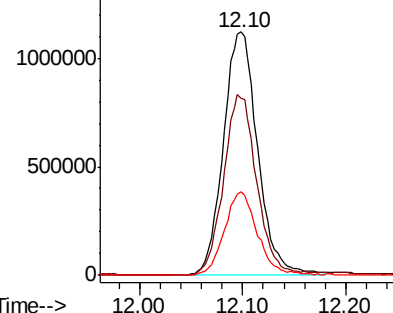
Ion	Ratio	Lower	Upper
117	100		
82	73.8	55.1	82.7
119	33.7	24.7	37.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

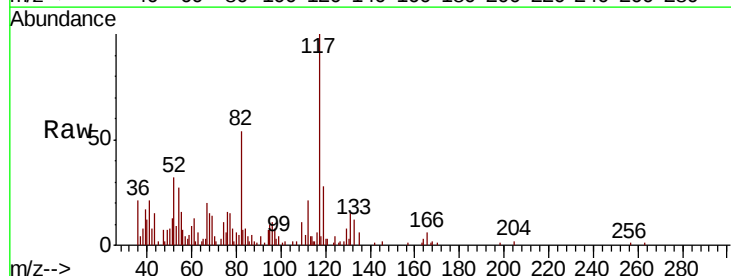
Ion 119.10 (118.80 to 119.80): V



#57
Chlorobenzene
Concen: 0.034 ppbv
RT: 12.16 min Scan# 2914
Delta R.T.: 0.00 min
Lab File: VL039259.D
Acq: 13 Jun 2022 19:54

Tgt Ion:112 Resp: 6735

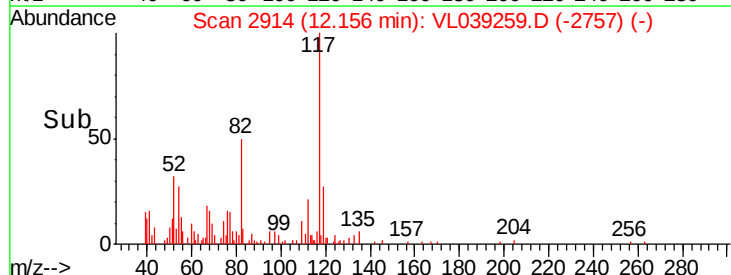
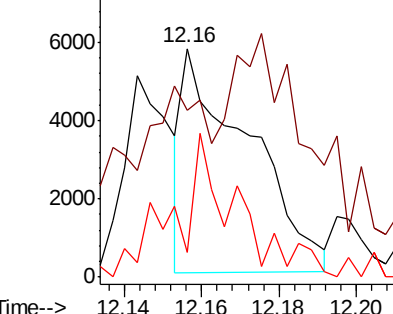
Ion	Ratio	Lower	Upper
112	100		
77	27.6	56.5	84.7#
114	19.3	30.3	37.1#

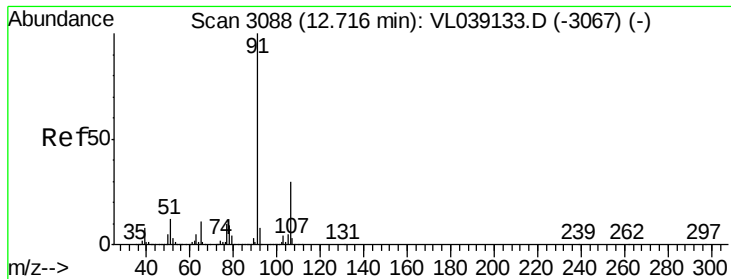


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.118 ppbv

RT: 13.01 min

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

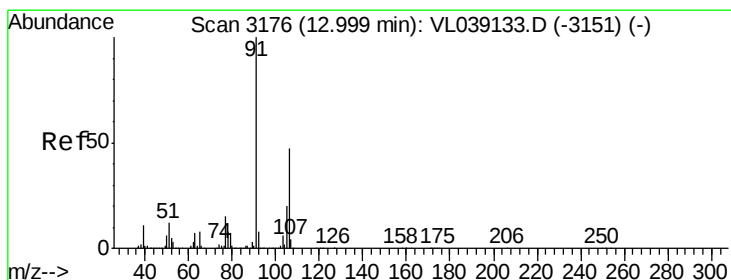
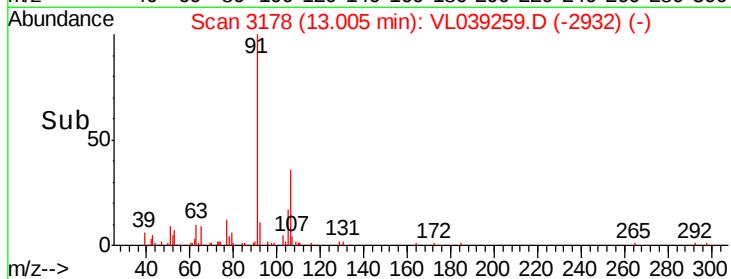
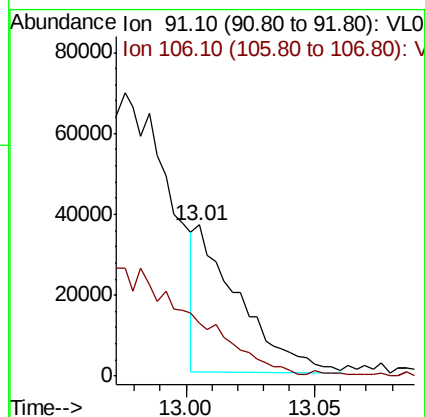
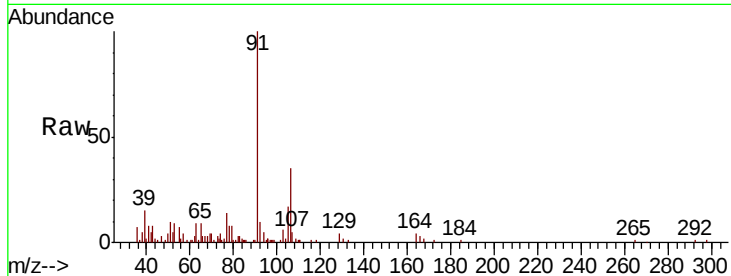
Acq: 13 Jun 2022 19:54

Tot Ion: 91 Resp: 42217

Ion Ratio Lower Upper

91 100

106 34.4 24.2 36.4



#59

m/p-Xylene

Concen: 0.134 ppbv

RT: 13.01 min Scan# 3178

Delta R.T. 0.01 min

Lab File: VL039259.D

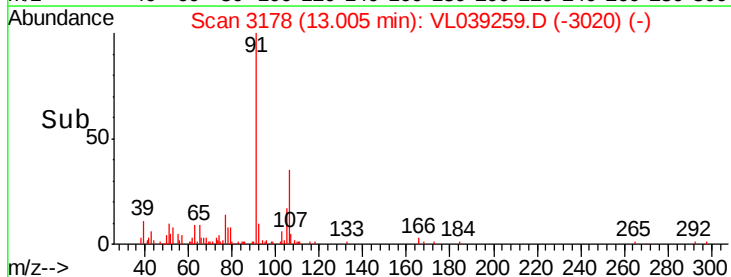
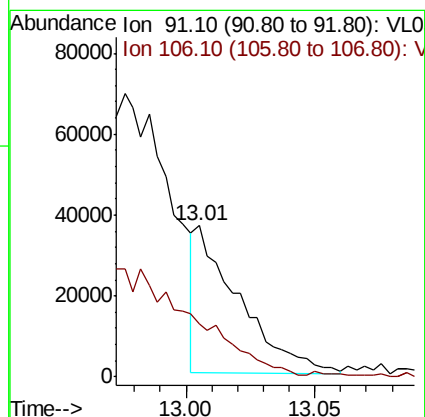
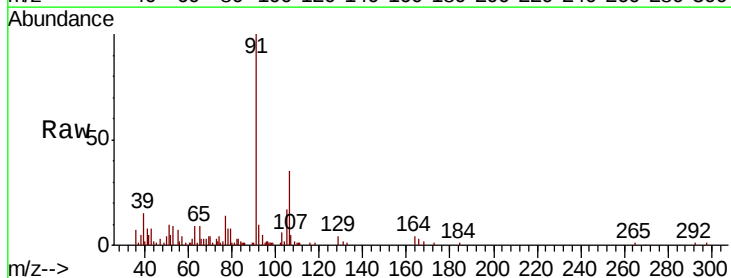
Acq: 13 Jun 2022 19:54

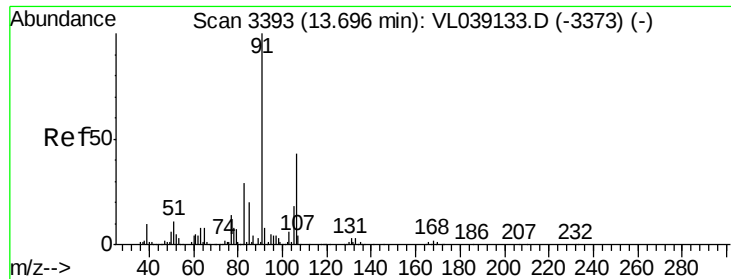
Tgt Ion: 91 Resp: 42217

Ion Ratio Lower Upper

91 100

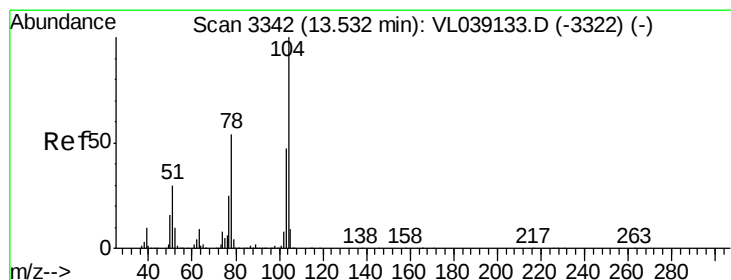
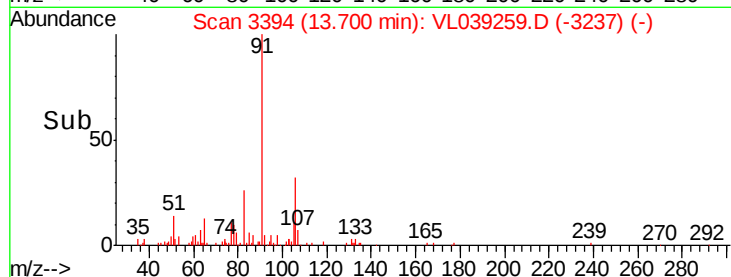
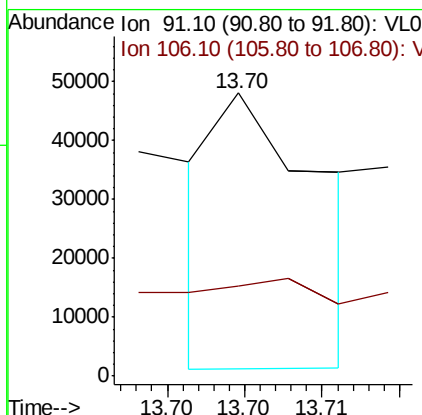
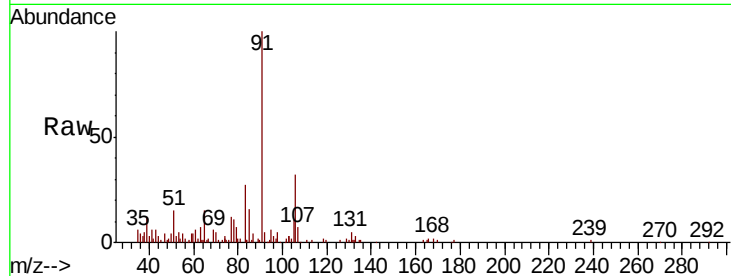
106 0.0 34.3 51.5#





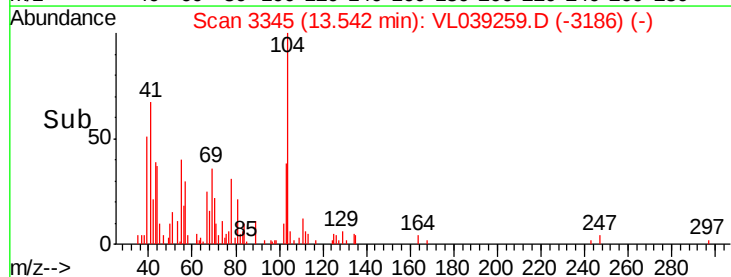
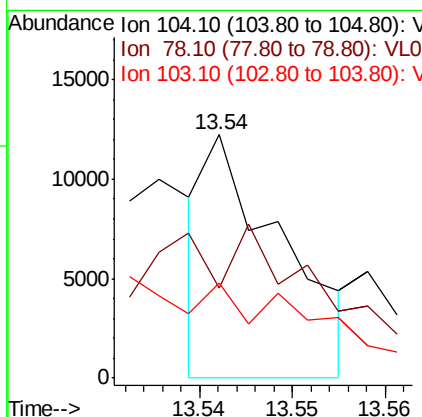
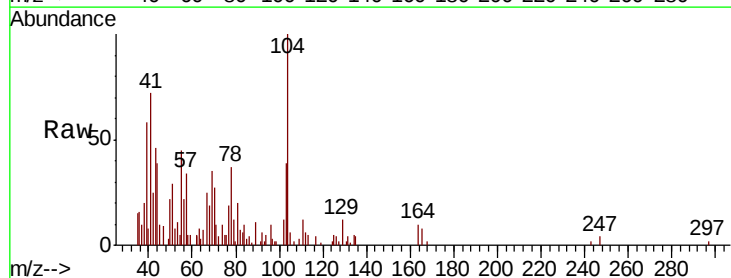
#60
o-Xylene
Concen: 0.074 ppbv
RT: 13.70
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 13 Jun 2022 19:54

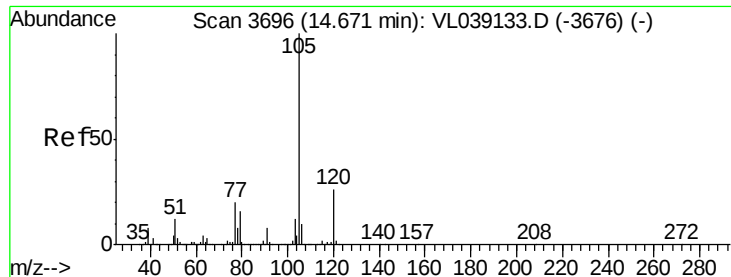
Tot Ion: 91 Resp: 21963
Ion Ratio Lower Upper
91 100
106 173.0 22.3 66.9#



#61
Styrene
Concen: 0.045 ppbv
RT: 13.54 min Scan# 3345
Delta R.T. 0.01 min
Lab File: VL039259.D
Acq: 13 Jun 2022 19:54

Tgt Ion: 104 Resp: 7109
Ion Ratio Lower Upper
104 100
78 242.6 45.7 68.5#
103 0.0 39.6 59.4#





#62

Isopropylbenzene

Concen: 2.889 ppbv

RT: 14.67

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

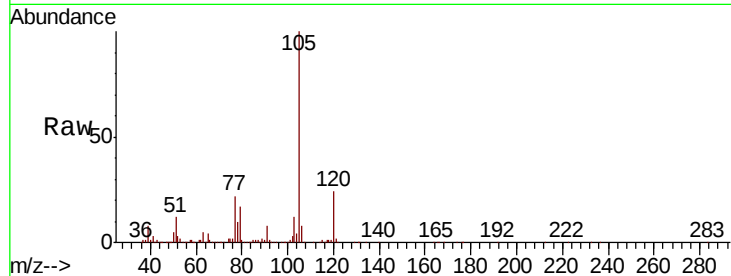
Acq: 13 Jun 2022 19:54

Tot Ion: 105 Resp: 1270902

Ion Ratio Lower Upper

105 100

120 24.1 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.67

600000

500000

400000

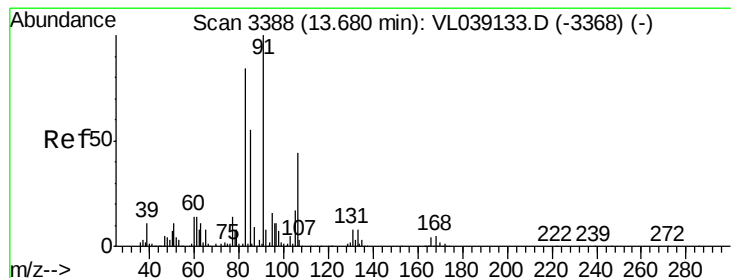
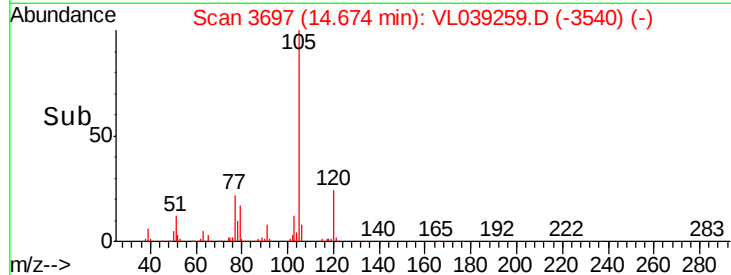
300000

200000

100000

0

Time-->



#63

1,1,2,2-Tetrachloroethane

Concen: 0.167 ppbv

RT: 13.68 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL039259.D

Acq: 13 Jun 2022 19:54

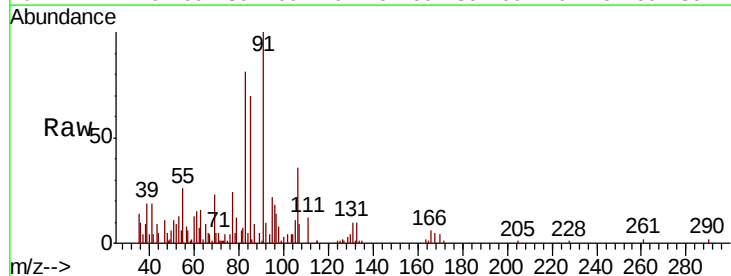
Tgt Ion: 83 Resp: 27822

Ion Ratio Lower Upper

83 100

131 32.0 4.8 14.3#

85 111.0 33.0 99.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

25000

20000

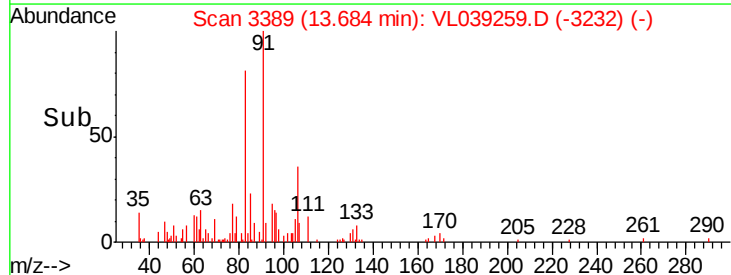
15000

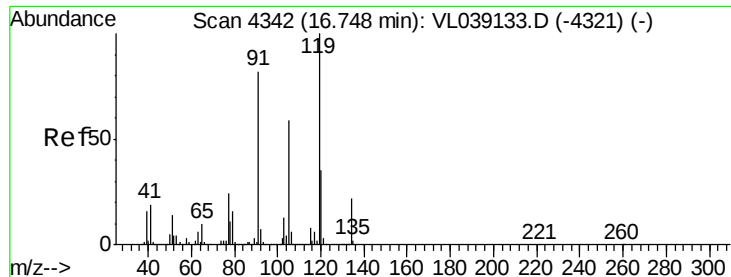
10000

5000

0

Time-->





#65

tert-Butylbenzene

Concen: 0.050 ppbv

RT: 16.76

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Jun 2022 19:54

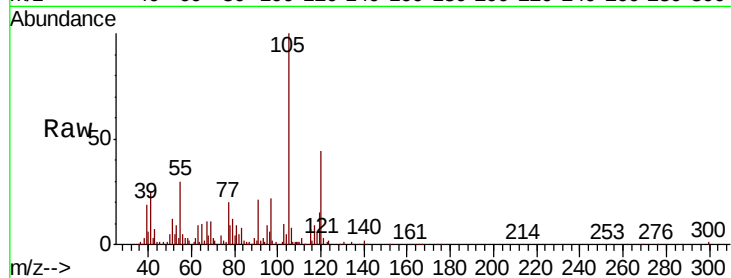
Tot Ion: 119 Resp: 20029

Ion Ratio Lower Upper

119 100

91 282.8 67.1 100.7#

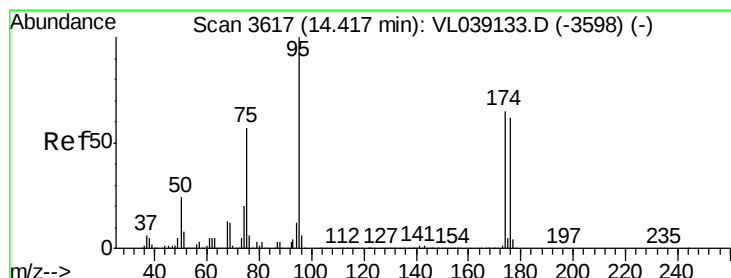
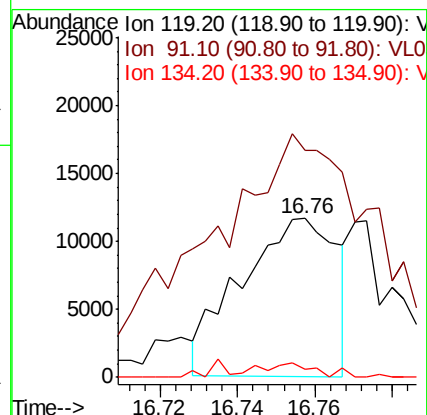
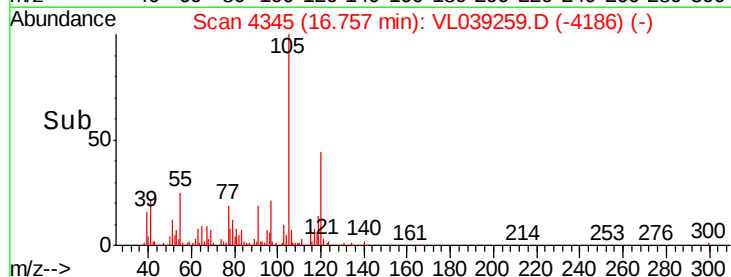
134 0.0 15.8 23.8#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 11.107 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL039259.D

Acq: 13 Jun 2022 19:54

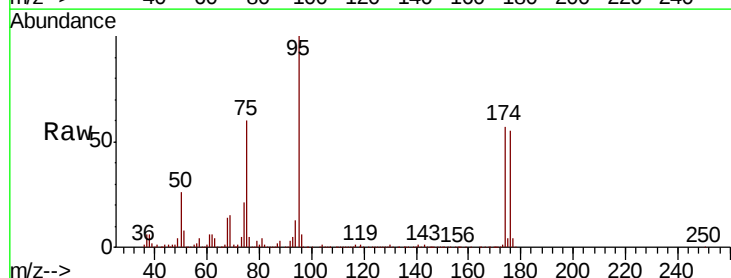
Tgt Ion: 95 Resp: 2384185

Ion Ratio Lower Upper

95 100

174 60.7 53.8 80.8

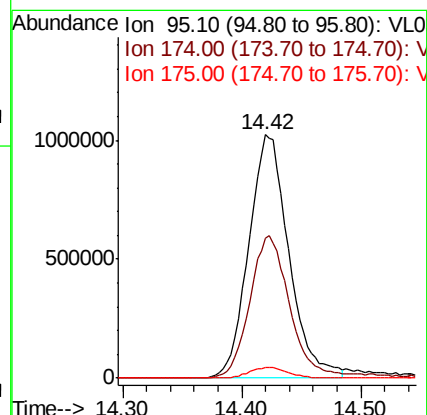
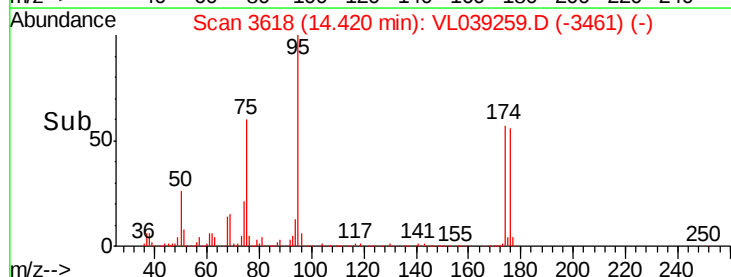
175 4.4 4.1 6.1

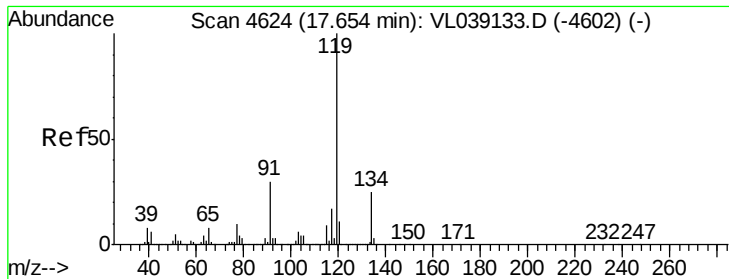


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

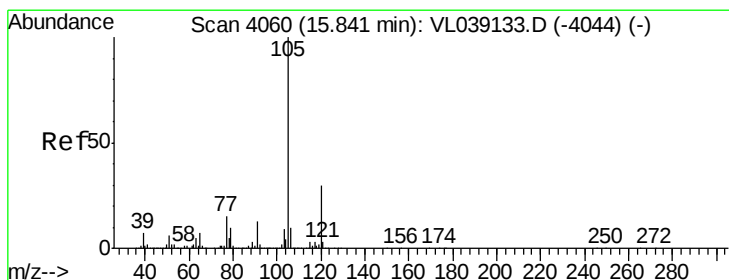
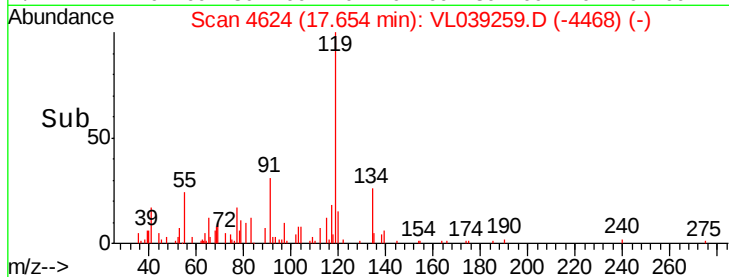
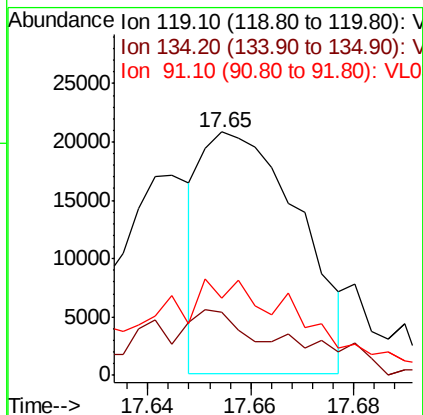
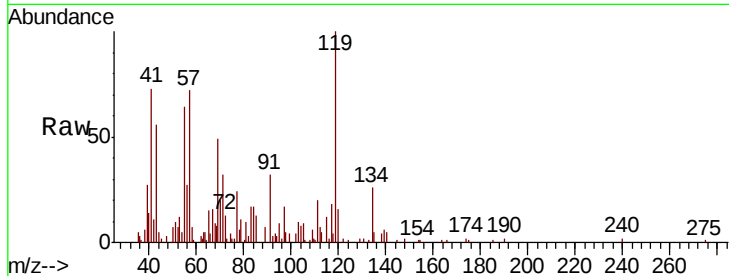
Ion 175.00 (174.70 to 175.70): V





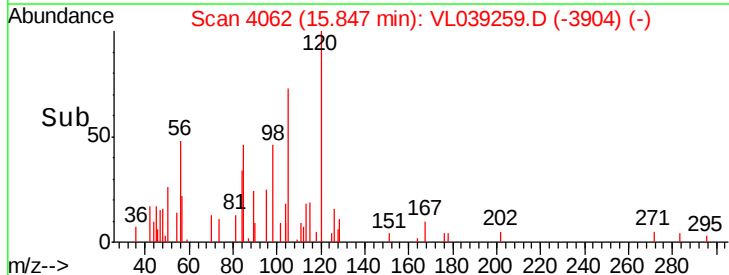
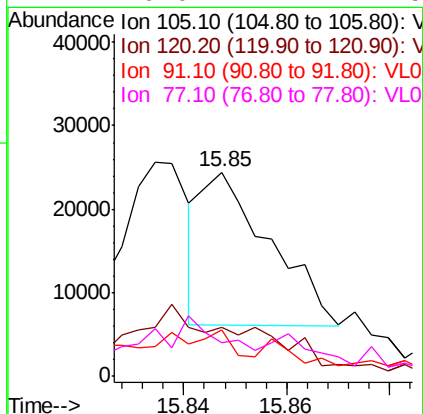
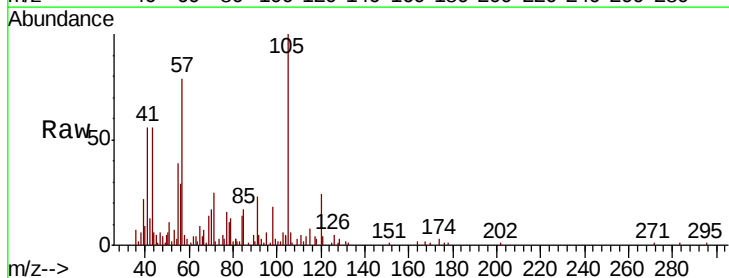
#69
 p-Isopropyltoluene
 Concen: 0.059 ppbv
 RT: 17.65 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 OTC-SG-2
 Acq: 13 Jun 2022 19:54

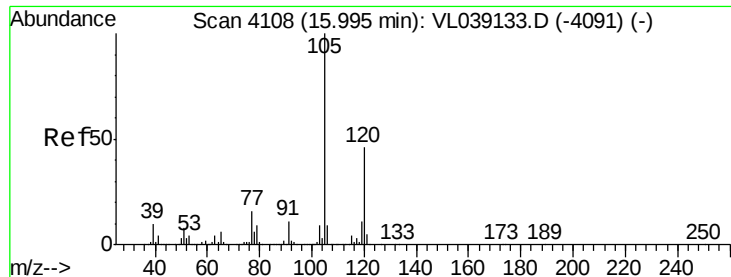
Tot Ion	Ratio	Lower	Upper
119	100		
134	44.0	20.4	30.6#
91	74.6	24.2	36.4#



#72
 4-Ethyltoluene
 Concen: 0.049 ppbv
 RT: 15.85 min Scan# 4062
 Delta R.T. 0.01 min
 Lab File: VL039259.D
 Acq: 13 Jun 2022 19:54

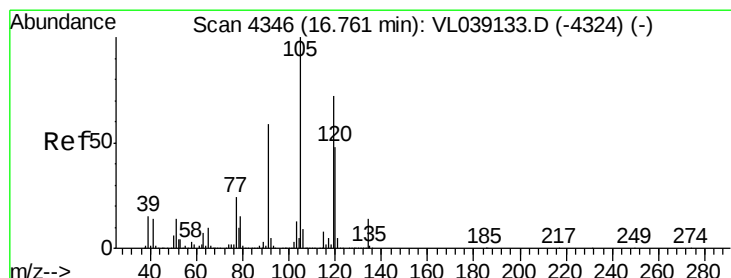
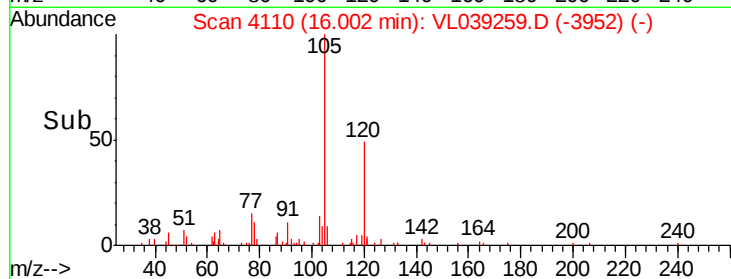
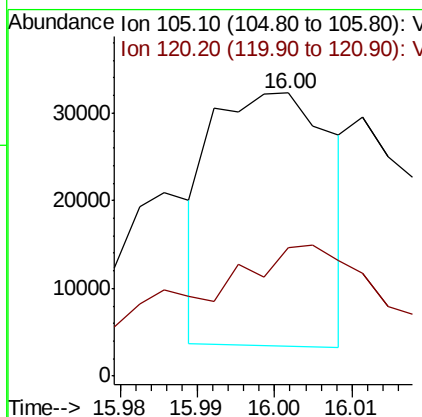
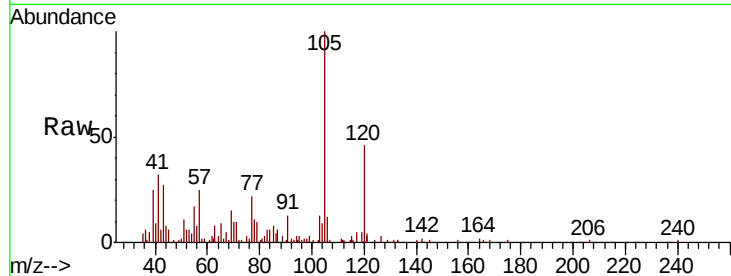
Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.9	35.9#
91	63.6	10.6	16.0#
77	0.0	11.7	17.5#





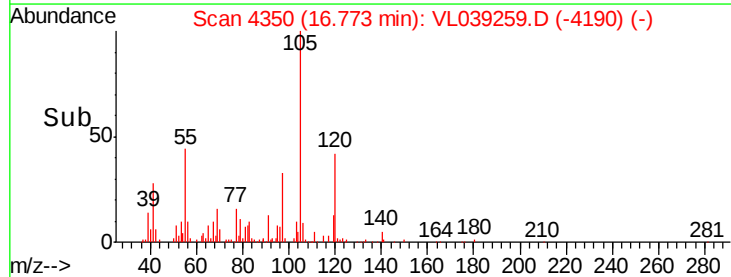
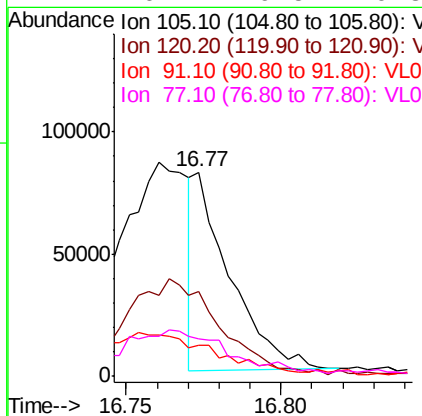
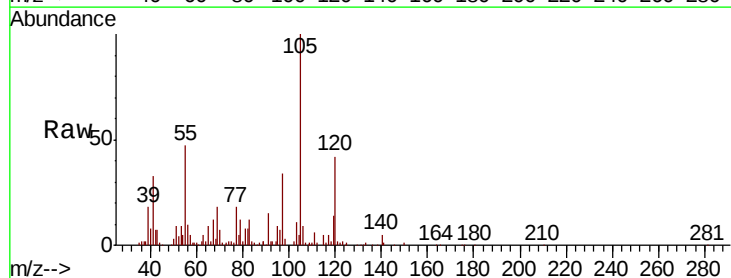
#73
 1,3,5-Trimethylbenzene
 Concen: 0.099 ppbv
 RT: 16.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 OTC-SG-2
 Acq: 13 Jun 2022 19:54

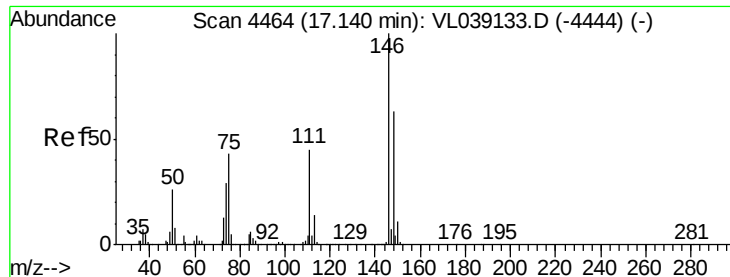
Tot Ion:105 Resp: 30907
 Ion Ratio Lower Upper
 105 100
 120 53.0 36.7 55.1



#74
 1,2,4-Trimethylbenzene
 Concen: 0.186 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. 0.01 min
 Lab File: VL039259.D
 Acq: 13 Jun 2022 19:54

Tgt Ion:105 Resp: 64928
 Ion Ratio Lower Upper
 105 100
 120 39.1 38.1 57.1
 91 13.0 47.4 71.0#
 77 16.4 19.5 29.3#





#76

1,4-Dichlorobenzene

Concen: 0.066 ppbv

RT: 17.14 min

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 13 Jun 2022 19:54

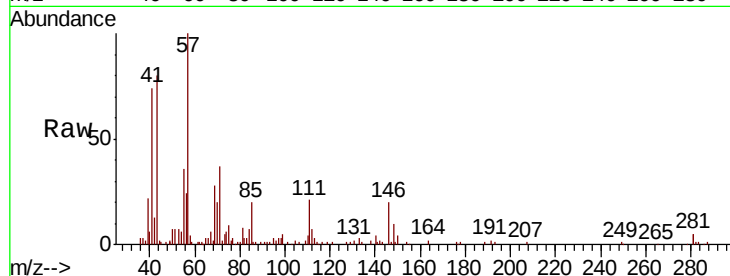
Tot Ion:146 Resp: 13100

Ion Ratio Lower Upper

146 100

111 0.0 23.6 71.0#

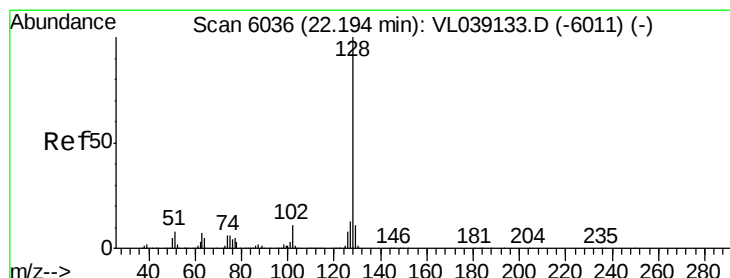
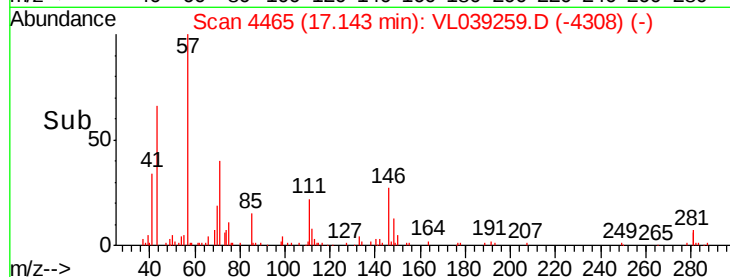
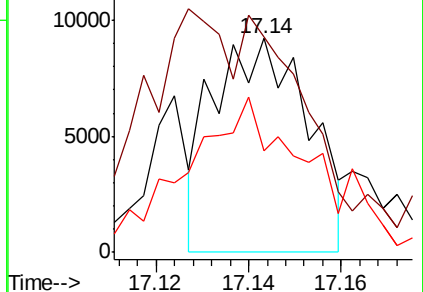
148 104.4 33.7 101.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.032 ppbv

RT: 22.21 min Scan# 6041

Delta R.T. 0.02 min

Lab File: VL039259.D

Acq: 13 Jun 2022 19:54

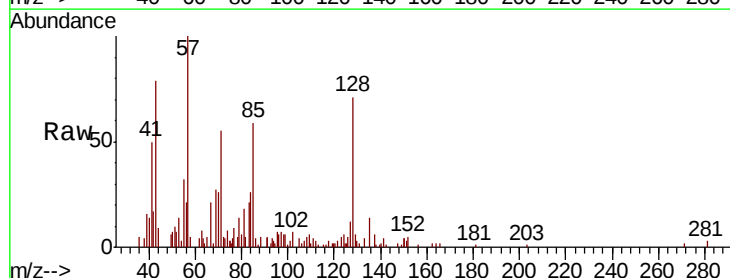
Tgt Ion:128 Resp: 8506

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

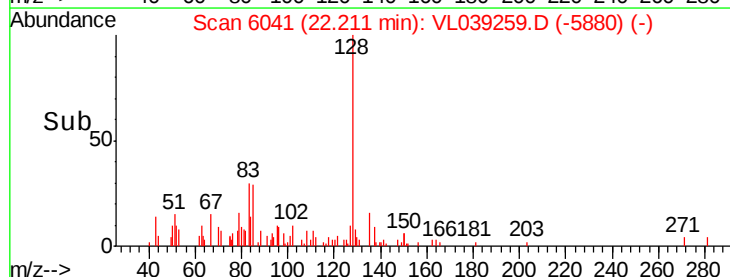
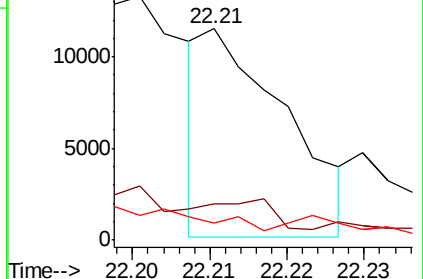
129 0.0 9.0 13.6#

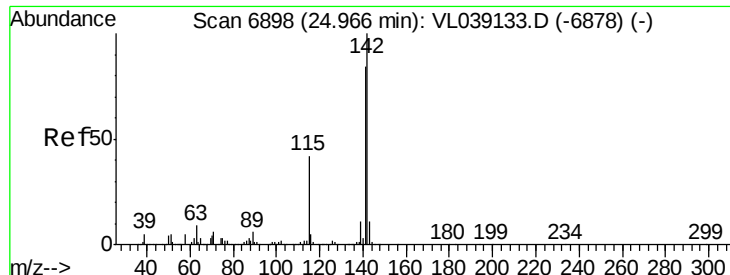


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

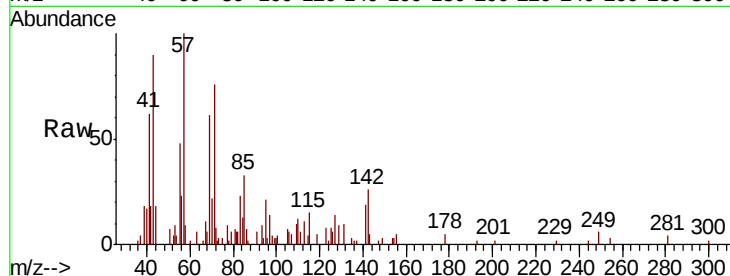
Ion 129.10 (128.80 to 129.80): V





#80
 Naphthalene, 2-methyl-
 Concen: 0.045 ppbv
 RT: 24.98
 Delta R.T: MSVOA_1
 Lab File: ClientSampleId :
 OTC-SG-2
 Acq: 13 Jun 2022 19:34

Tot Ion	Ratio	Lower	Upper
142	100		
141	104.7	64.6	96.8#
115	77.0	32.7	49.1#



Abundance Ion 142.00 (141.70 to 142.70): V
 Ion 141.00 (140.70 to 141.70): V
 Ion 115.00 (114.70 to 115.70): V

