

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
 Data File : VL039339.D
 Acq On : 24 Jun 2022 13:45
 Operator : SY/AP
 Sample : N3489-01 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1-20220622

Quant Time: Jun 27 01:48:33 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	5.66	49	1218318	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3393751	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3089163	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2348402	9.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.00%

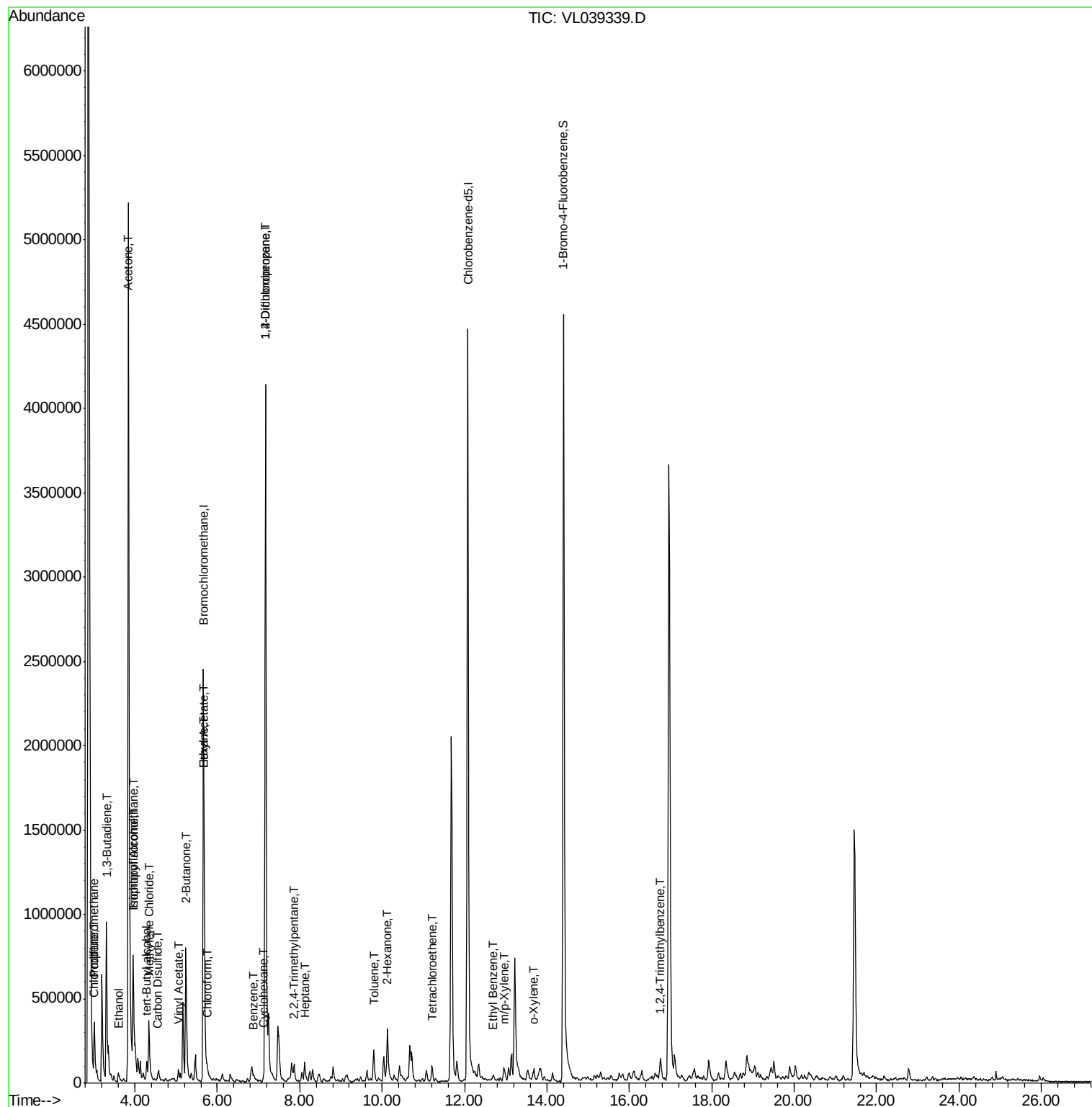
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.99	51	8887	0.057 ppbv	93
9) Propene	3.02	41	167476	2.478 ppbv	93
10) Heptane	8.12	43	38398	0.244 ppbv #	82
11) Trichlorofluoromethane	3.94	101	61543	0.318 ppbv	85
13) Ethanol	3.60	45	46809	12.698 ppbv #	100
15) Acetone	3.84	43	6795632	53.547 ppbv	95
16) 1,3-Butadiene	3.31	39	289816	4.248 ppbv #	18
17) tert-Butyl alcohol	4.29	59	78512	0.798 ppbv #	92
19) Isopropyl Alcohol	3.95	45	803368	13.497 ppbv #	1
20) Methylene Chloride	4.34	84	125474	2.346 ppbv	91
23) Vinyl Acetate	5.06	43	45803	0.436 ppbv #	67
25) Ethyl Acetate	5.69	43	77647	0.271 ppbv #	86
26) Hexane	5.69	57	102674	0.817 ppbv #	33
27) Carbon Disulfide	4.55	76	36332	0.279 ppbv #	63
29) Chloroform	5.75	83	26208	0.124 ppbv #	83
30) Cyclohexane	7.12	84	4599	0.044 ppbv #	1
34) 2-Butanone	5.24	43	1008862	5.472 ppbv	96
36) Benzene	6.89	78	9901	0.036 ppbv #	80
39) 1,2-Dichloropropane	7.17	63	833423	7.605 ppbv #	23
44) 2,2,4-Trimethylpentane	7.86	57	39515	0.082 ppbv #	23
51) 2-Hexanone	10.13	43	270007	1.257 ppbv #	96
52) Tetrachloroethene	11.21	164	14533	0.135 ppbv	89
53) Toluene	9.80	91	56965	0.180 ppbv #	52
58) Ethyl Benzene	12.69	91	16447	0.039 ppbv	93
59) m/p-Xylene	12.98	91	16004	0.043 ppbv #	33
60) o-Xylene	13.68	91	37191	0.106 ppbv #	31
74) 1,2,4-Trimethylbenzene	16.75	105	70652	0.170 ppbv #	67

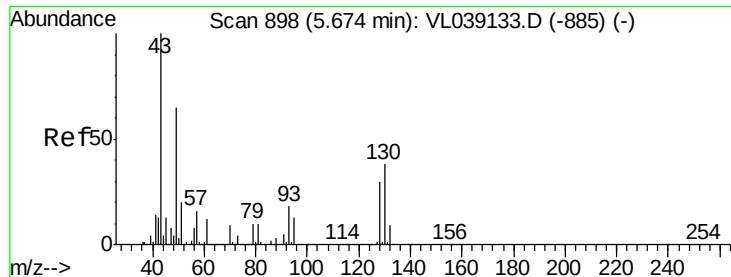
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jun 2022 13:45 SV-1-20220622

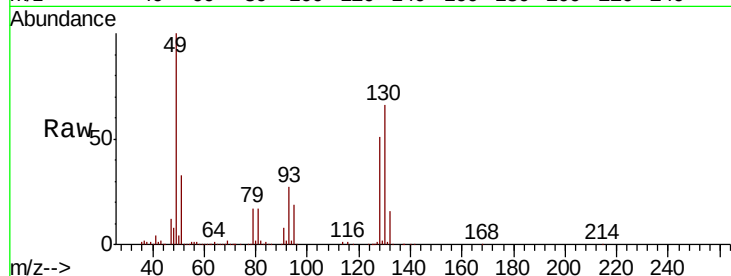
Tot Ion: 49 Resp: 1218318

Ion Ratio Lower Upper

49 100

128 54.2 24.7 74.1

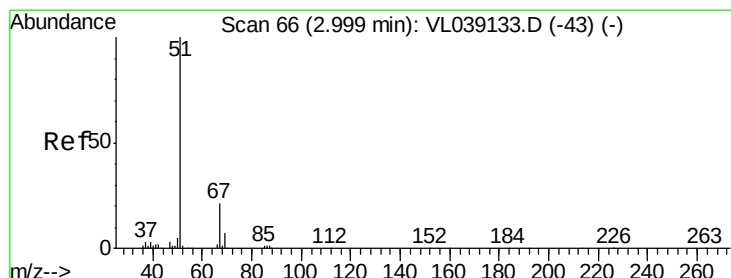
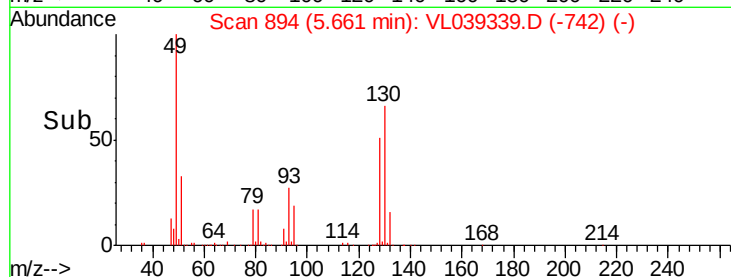
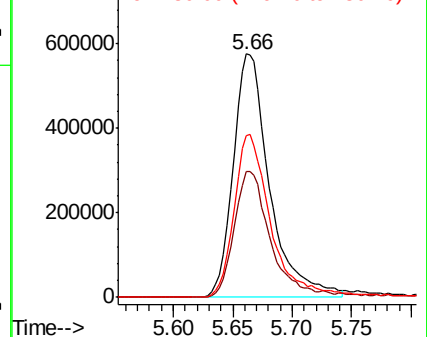
130 69.5 31.4 94.0



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



#3

Chlorodifluoromethane

Concen: 0.057 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL039339.D

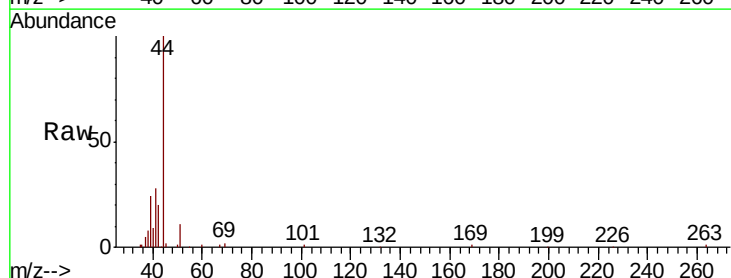
Acq: 24 Jun 2022 13:45

Tgt Ion: 51 Resp: 8887

Ion Ratio Lower Upper

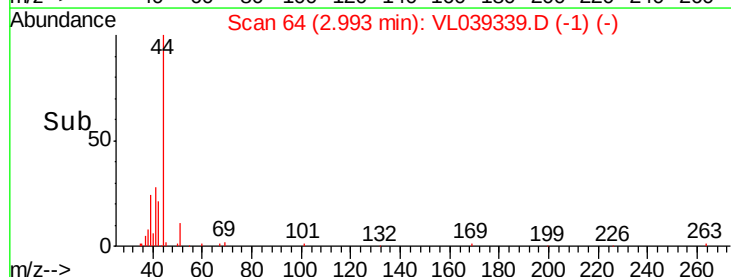
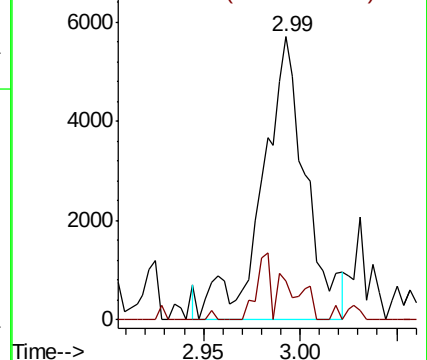
51 100

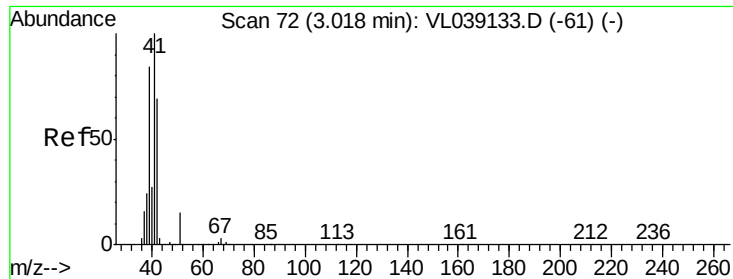
67 17.1 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 2.478 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. -0.01 min

Lab File: ClientSampleId: SV-1-20220622

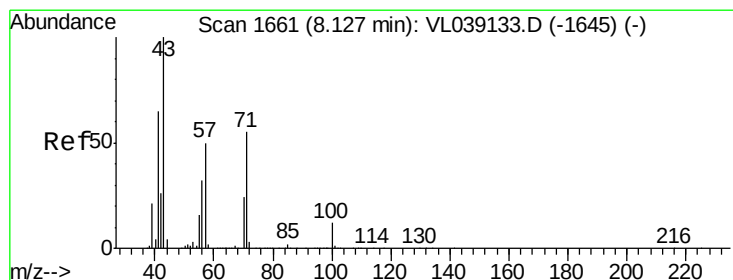
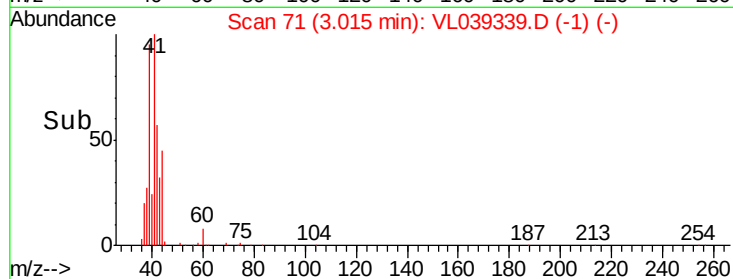
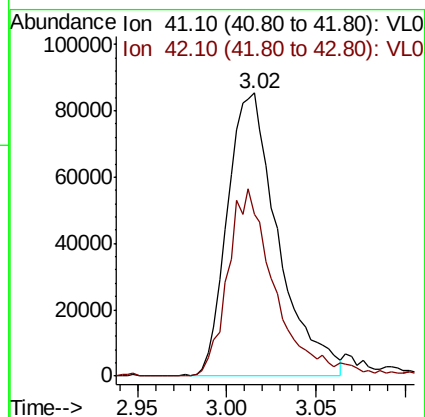
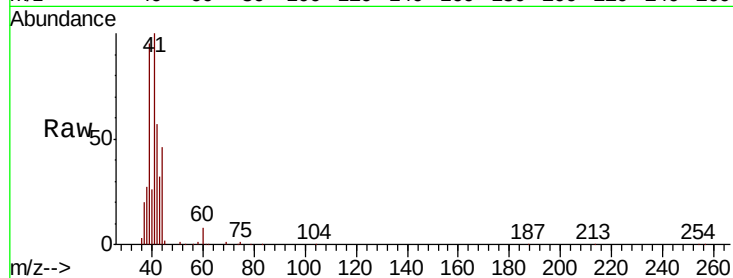
Acq: 24 Jun 2022 13:45

Tot Ion: 41 Resp: 167476

Ion Ratio Lower Upper

41 100

42 63.3 55.4 83.2



#10

Heptane

Concen: 0.244 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL039339.D

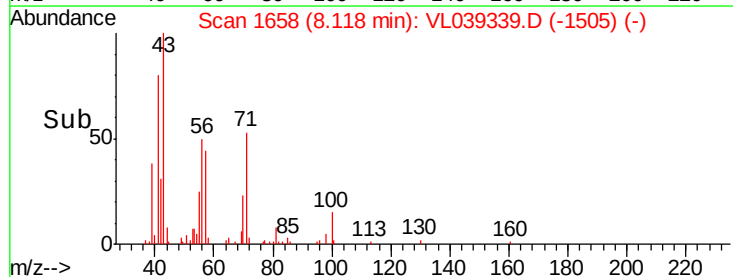
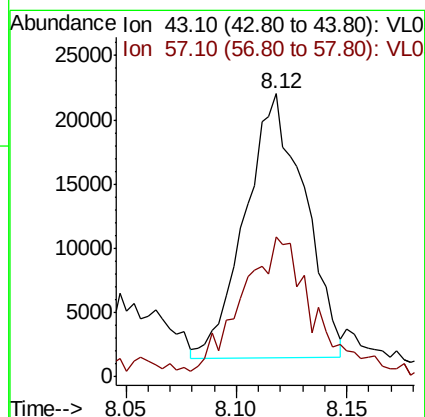
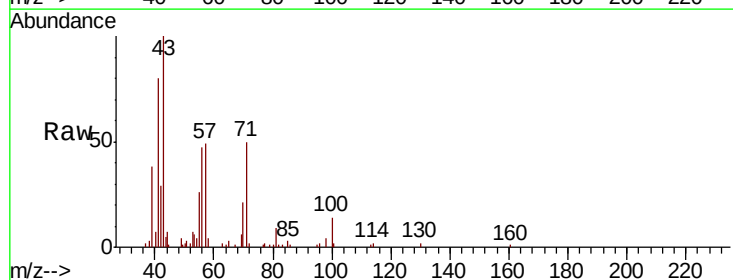
Acq: 24 Jun 2022 13:45

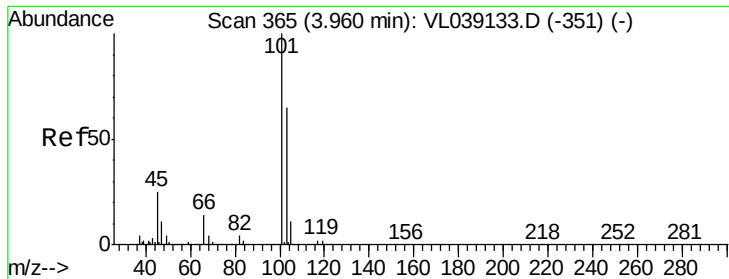
Tgt Ion: 43 Resp: 38398

Ion Ratio Lower Upper

43 100

57 64.1 41.4 62.2#





#11

Trichlorofluoromethane

Concen: 0.318 ppbv

RT: 3.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

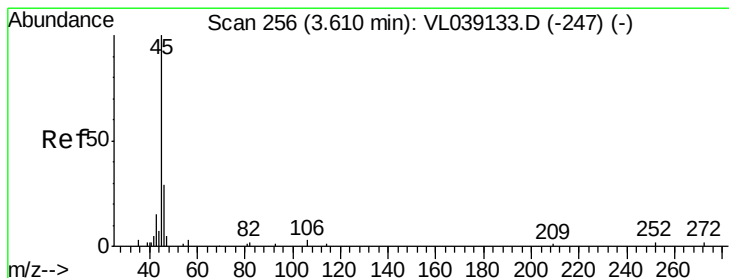
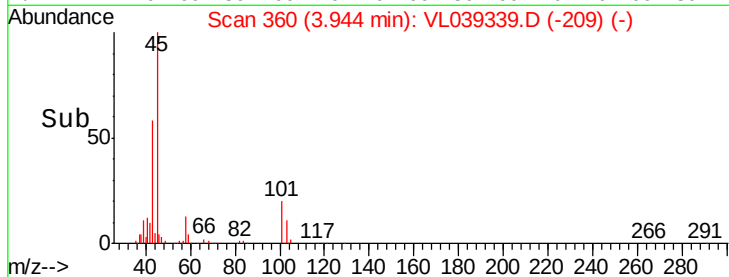
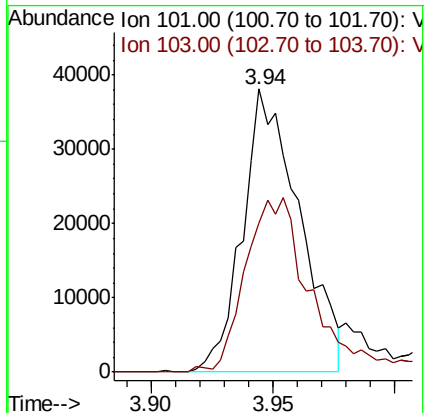
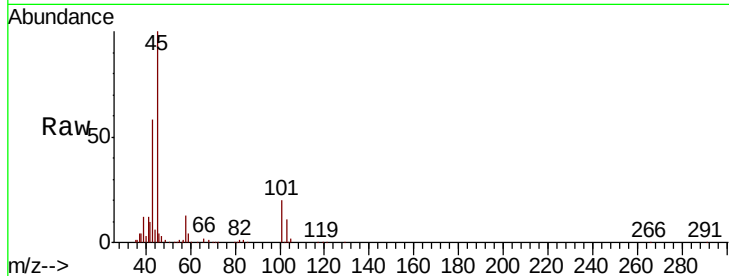
Acq: 24 Jun 2022 13:45 SV-1-20220622

Tot Ion:101 Resp: 61543

Ion Ratio Lower Upper

101 100

103 52.5 51.7 77.5



#13

Ethanol

Concen: 12.698 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL039339.D

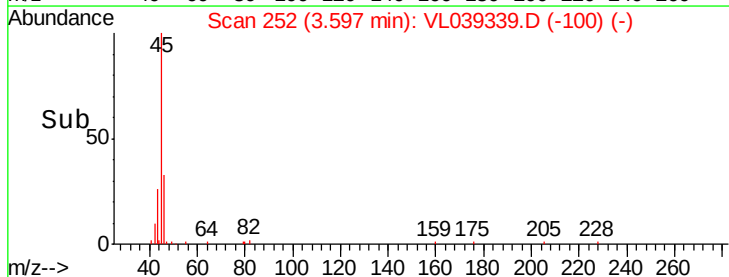
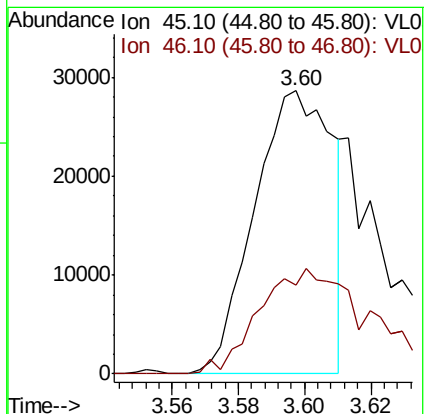
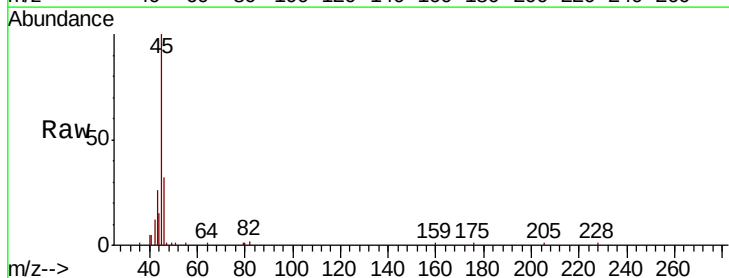
Acq: 24 Jun 2022 13:45

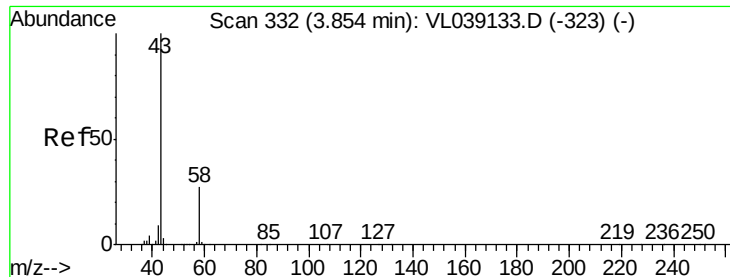
Tgt Ion: 45 Resp: 46809

Ion Ratio Lower Upper

45 100

46 64.4 0.0 0.0#





#15

Acetone

Concen: 53.547 ppbv

RT: 3.84 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-1-20220622

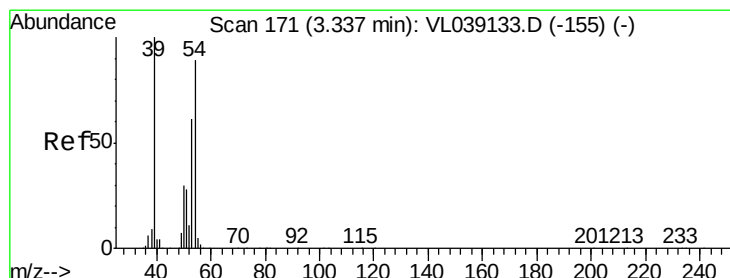
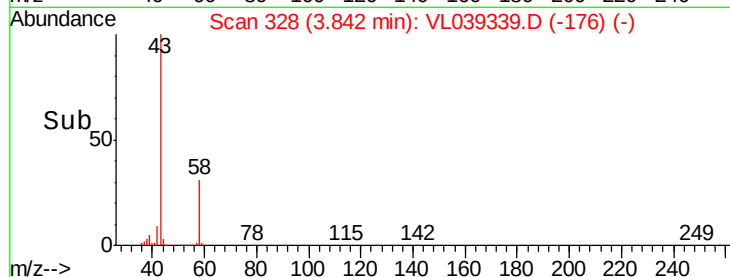
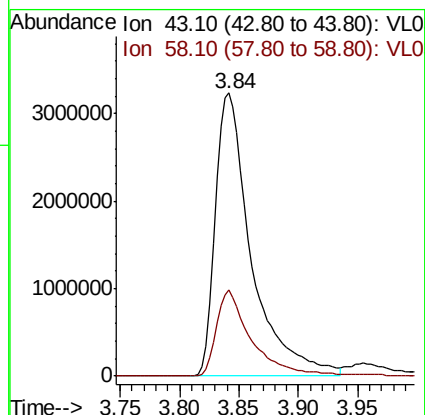
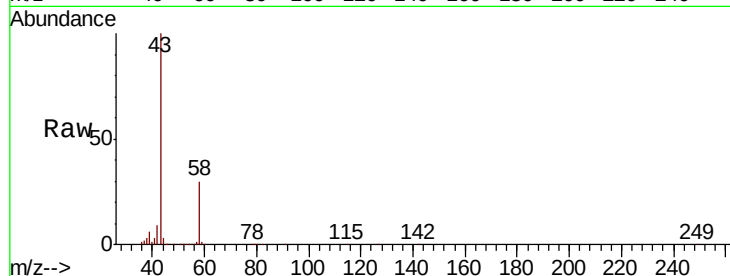
Acq: 24 Jun 2022 13:45

Tot Ion: 43 Resp: 6795632

Ion Ratio Lower Upper

43 100

58 30.7 22.5 33.7



#16

1,3-Butadiene

Concen: 4.248 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.03 min

Lab File: VL039339.D

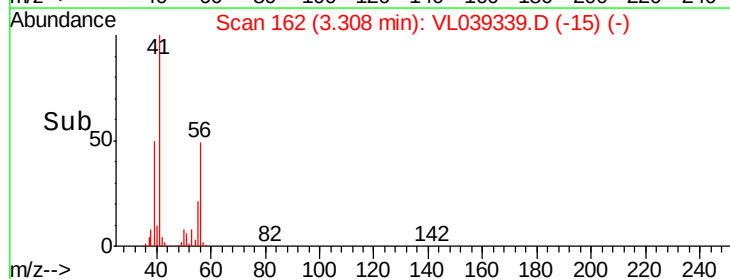
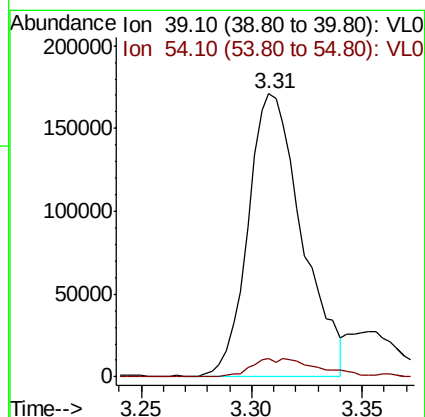
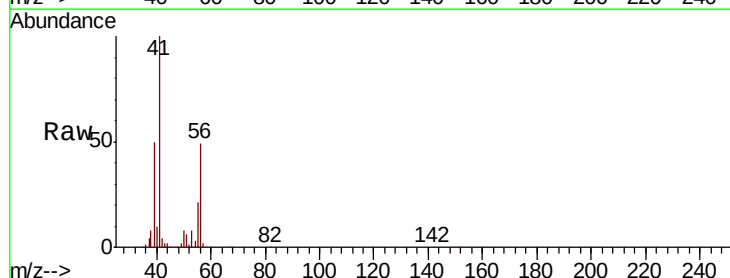
Acq: 24 Jun 2022 13:45

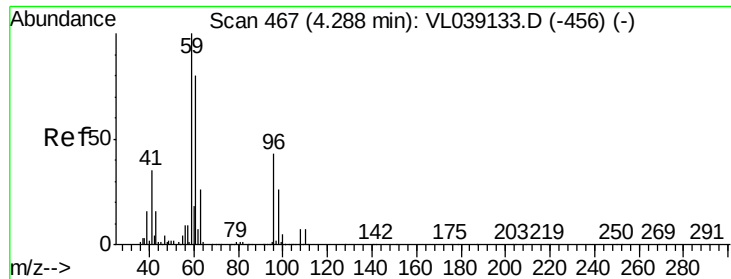
Tgt Ion: 39 Resp: 289816

Ion Ratio Lower Upper

39 100

54 8.6 65.8 98.6#





#17

tert-Butyl alcohol

Concen: 0.798 ppbv

RT: 4.29 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

SV-1-20220622

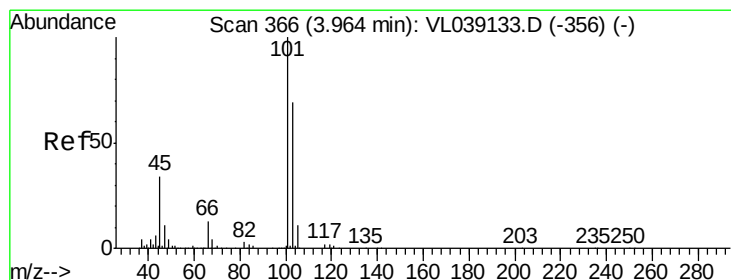
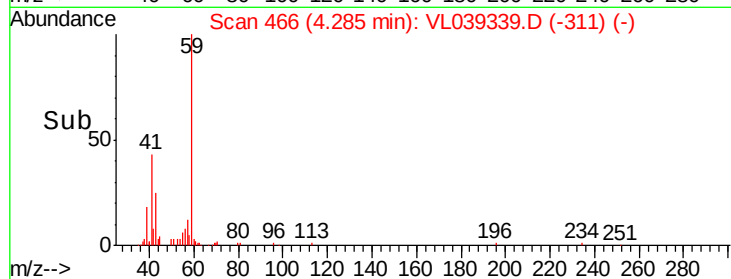
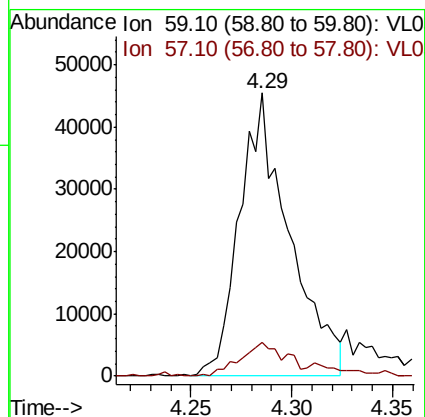
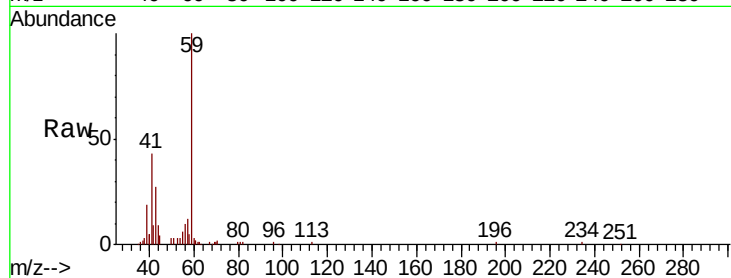
Acq: 24 Jun 2022 13:45

Tot Ion: 59 Resp: 78512

Ion Ratio Lower Upper

59 100

57 14.5 9.1 13.7#



#19

Isopropyl Alcohol

Concen: 13.497 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL039339.D

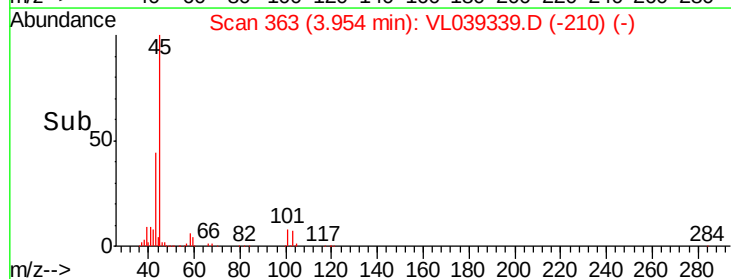
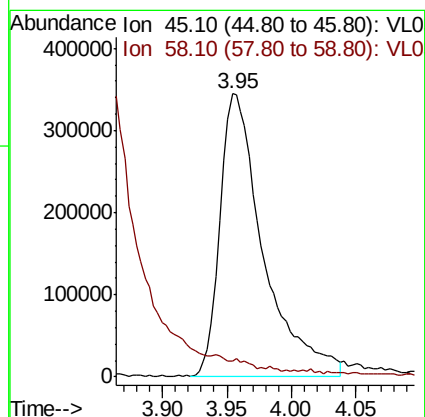
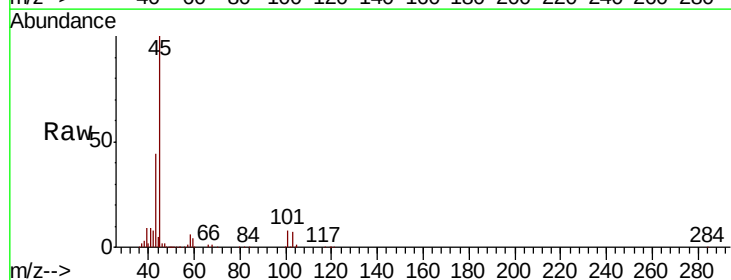
Acq: 24 Jun 2022 13:45

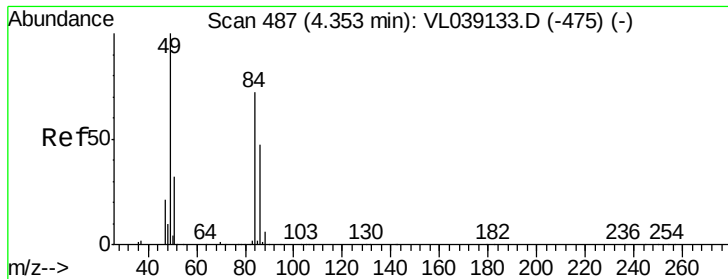
Tgt Ion: 45 Resp: 803368

Ion Ratio Lower Upper

45 100

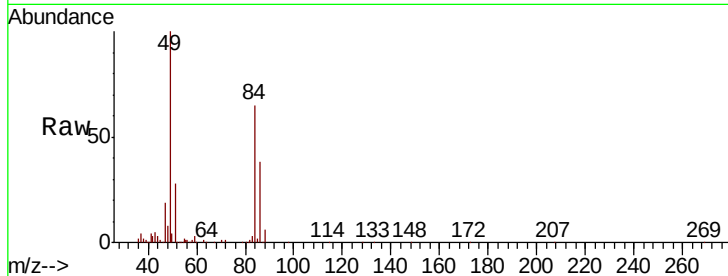
58 260.1 1.8 2.8#



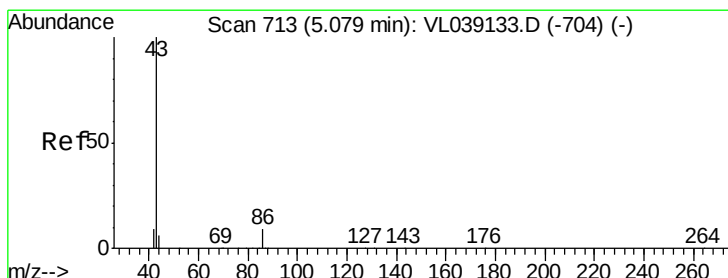
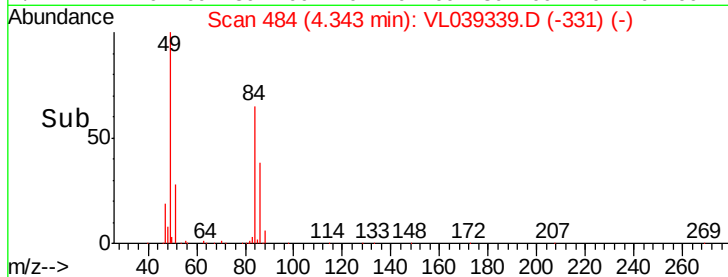
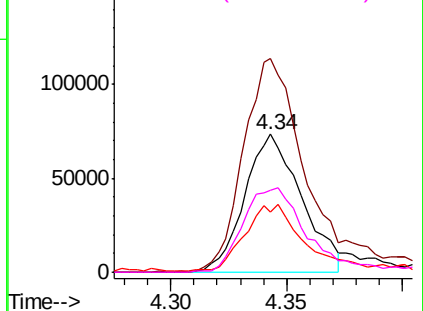


#20
Methylene Chloride
Concen: 2.346 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV-1-20220622
Acq: 24 Jun 2022 13:45

Tot Ion:	84	Resp:	125474
Ion	Ratio	Lower	Upper
84	100		
49	153.3	111.1	166.7
51	42.5	35.3	52.9
86	58.9	51.9	77.9

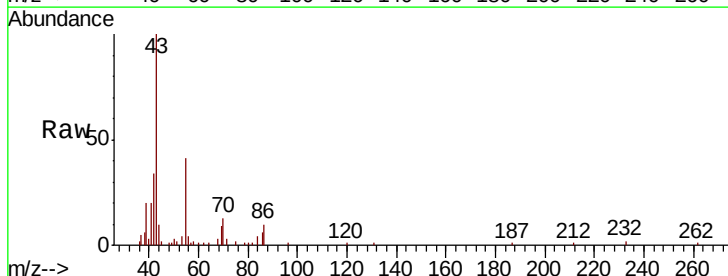


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

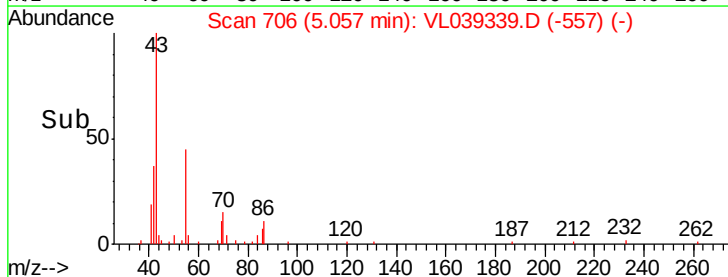
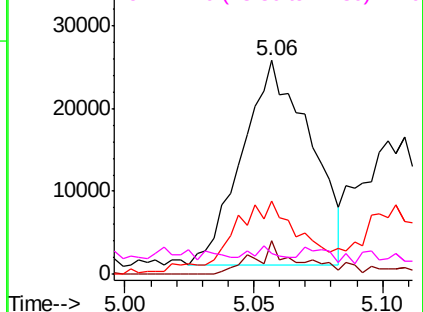


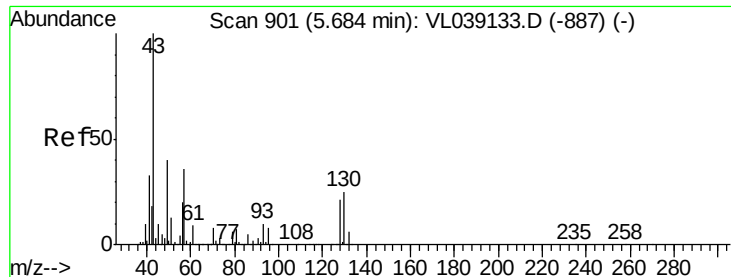
#23
Vinyl Acetate
Concen: 0.436 ppbv
RT: 5.06 min Scan# 706
Delta R.T. -0.02 min
Lab File: VL039339.D
Acq: 24 Jun 2022 13:45

Tgt Ion:	43	Resp:	45803
Ion	Ratio	Lower	Upper
43	100		
86	16.4	6.0	9.0#
42	30.4	8.2	12.4#
44	4.4	4.3	6.5



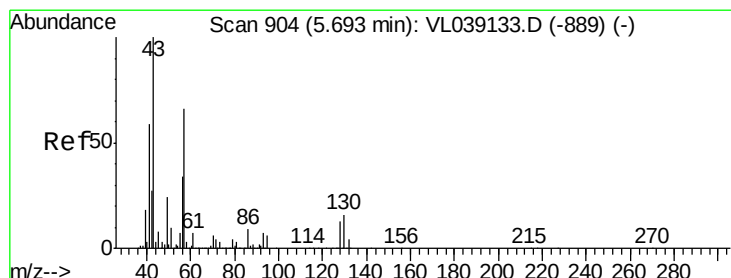
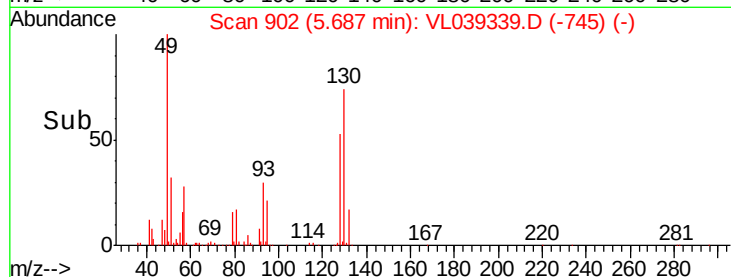
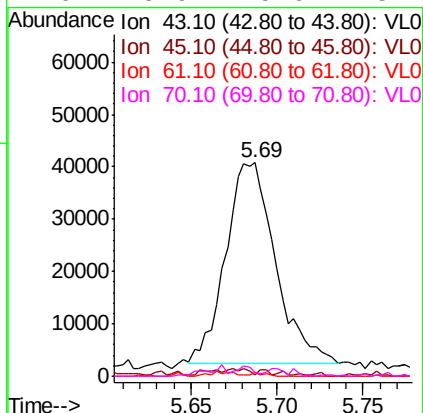
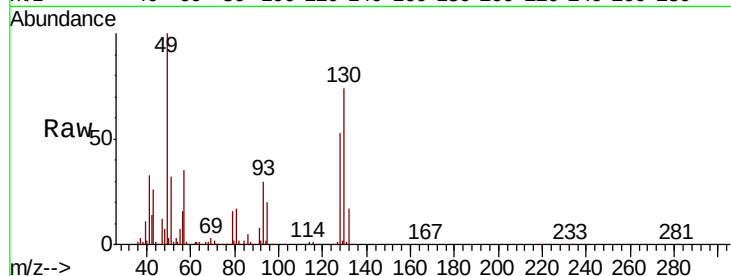
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





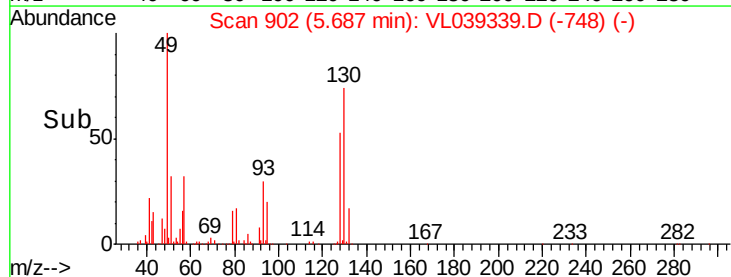
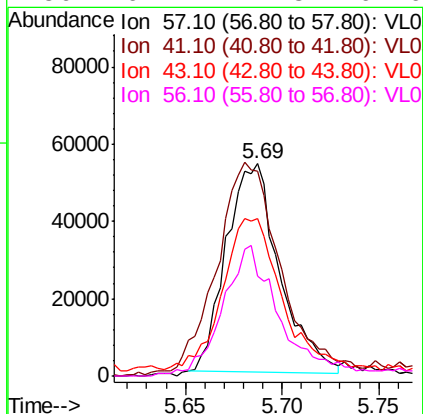
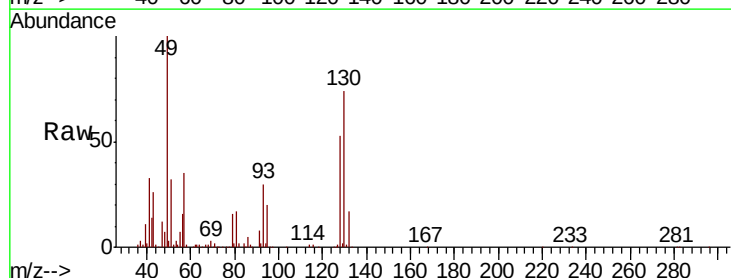
#25
Ethyl Acetate
Concen: 0.271 ppbv
RT: 5.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jun 2022 13:45

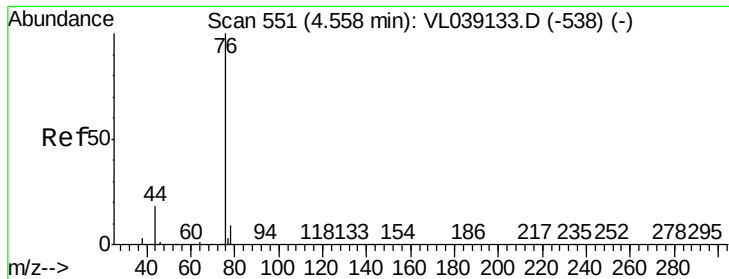
Tot Ion:	43	Resp:	77647
Ion	Ratio	Lower	Upper
43	100		
45	5.7	8.2	12.2#
61	2.1	8.4	12.6#
70	5.9	5.6	8.4



#26
Hexane
Concen: 0.817 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL039339.D
Acq: 24 Jun 2022 13:45

Tgt Ion:	57	Resp:	102674
Ion	Ratio	Lower	Upper
57	100		
41	123.4	72.4	108.6#
43	83.2	187.0	280.6#
56	67.7	41.8	62.6#





#27

Carbon Disulfide

Concen: 0.279 ppbv

RT: 4.55 Instrument: MSVOA_L

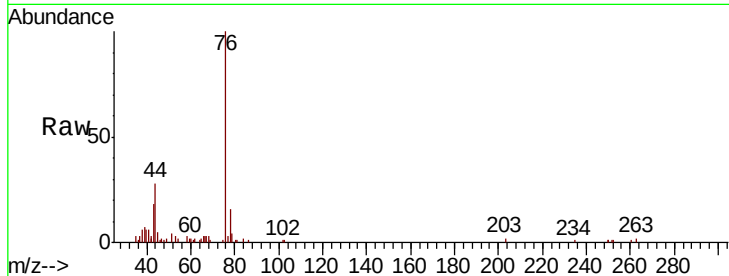
Delta R.T.

Lab File: ClientSampleId:

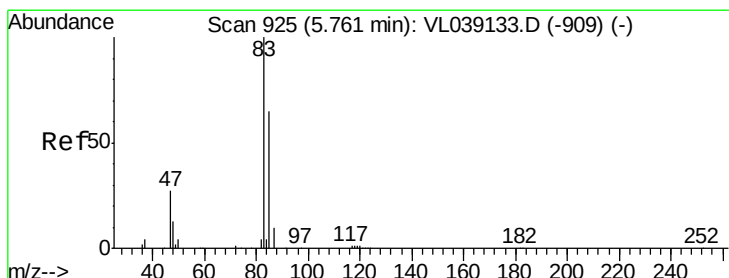
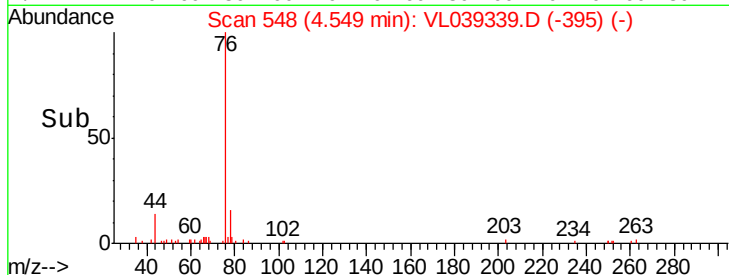
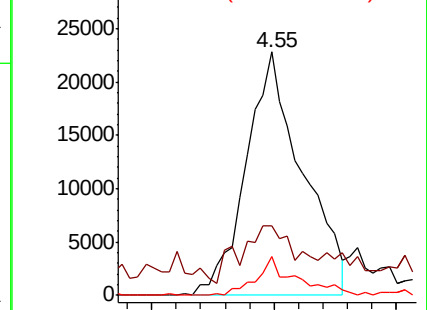
Acq: 24 Jun 2022 13:45 SV-1-20220622

Tot Ion: 76 Resp: 36332

Ion	Ratio	Lower	Upper
76	100		
44	42.0	14.4	21.6#
78	11.3	7.7	11.5



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.124 ppbv

RT: 5.75 min Scan# 922

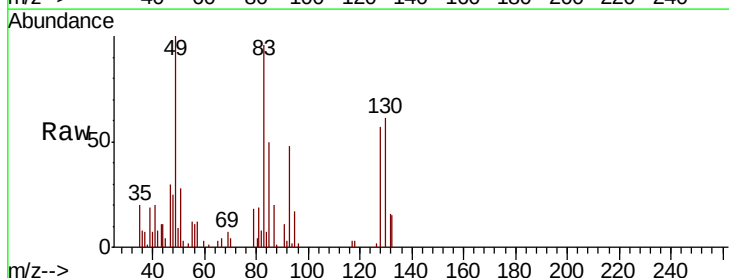
Delta R.T. -0.01 min

Lab File: VL039339.D

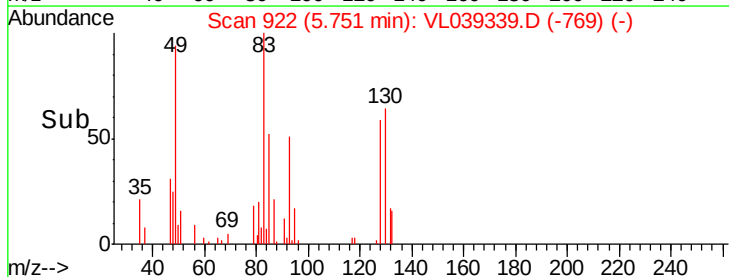
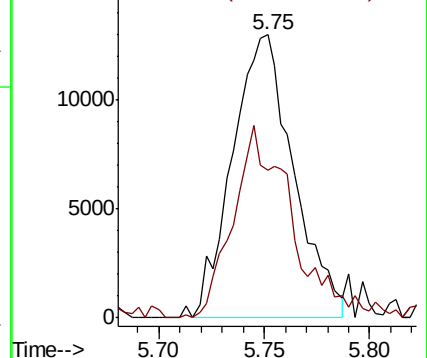
Acq: 24 Jun 2022 13:45

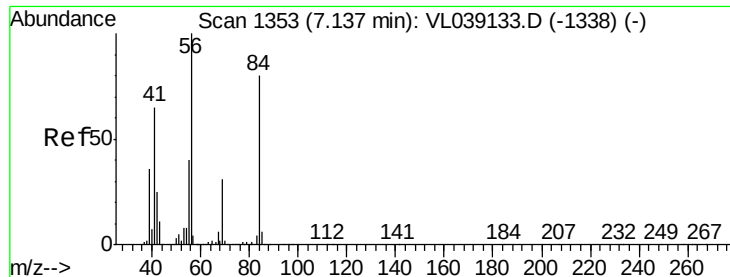
Tgt Ion: 83 Resp: 26208

Ion	Ratio	Lower	Upper
83	100		
85	52.0	52.4	78.6#



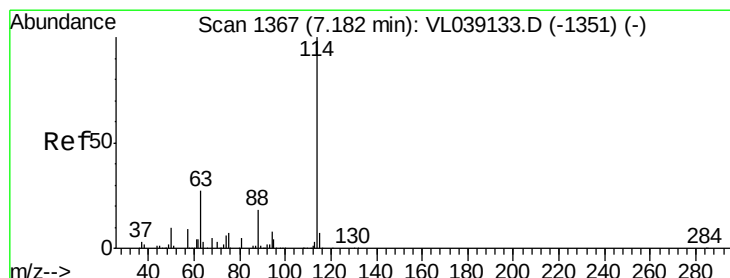
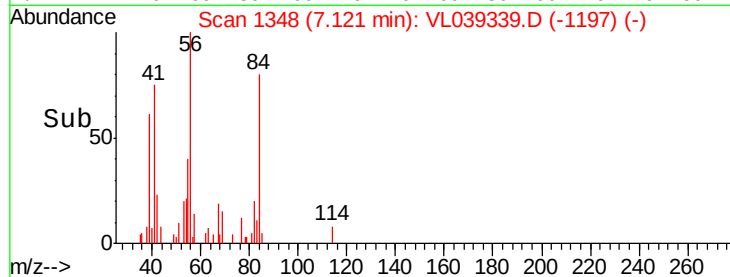
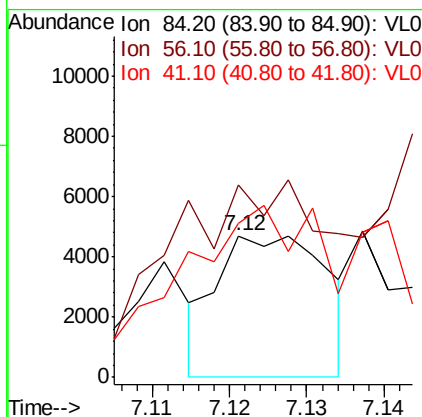
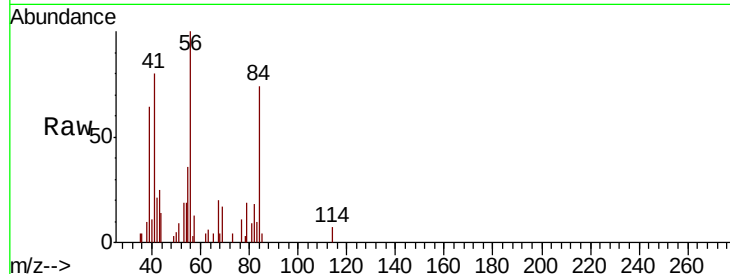
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





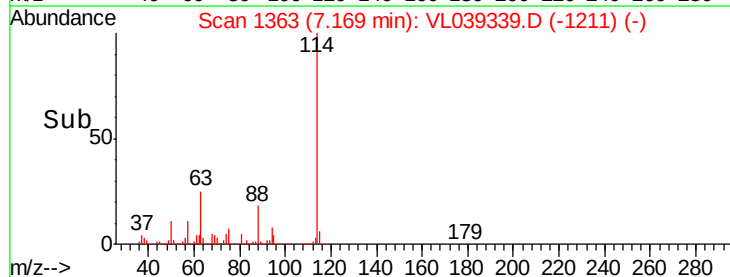
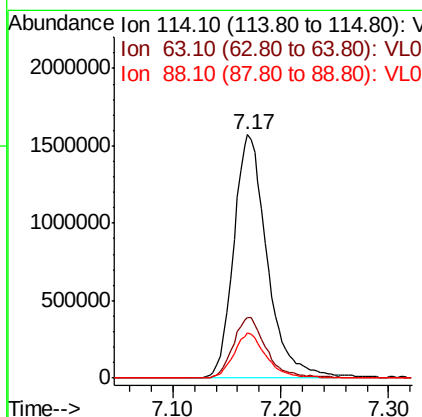
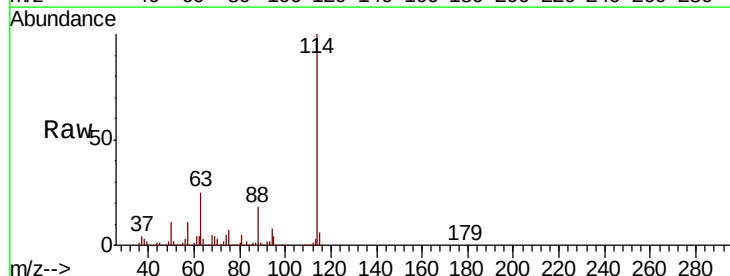
#30
Cvclohexane
Concen: 0.044 ppbv
RT: 7.12 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV-1-20220622
Acq: 24 Jun 2022 13:45

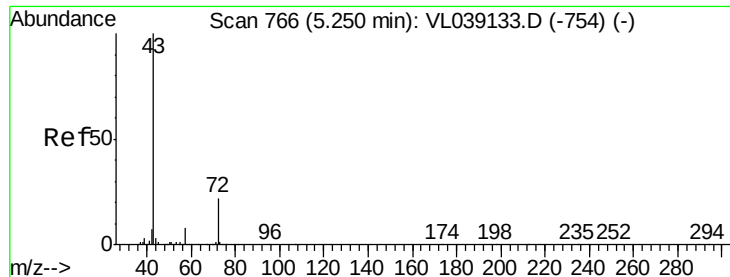
Tot Ion	84	Resp	4599
Ion Ratio	Lower	Upper	
84	100		
56	0.0	110.6	165.8#
41	251.2	68.9	103.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T.: -0.01 min
Lab File: VL039339.D
Acq: 24 Jun 2022 13:45

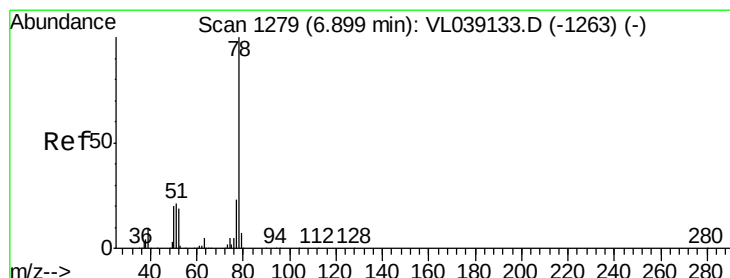
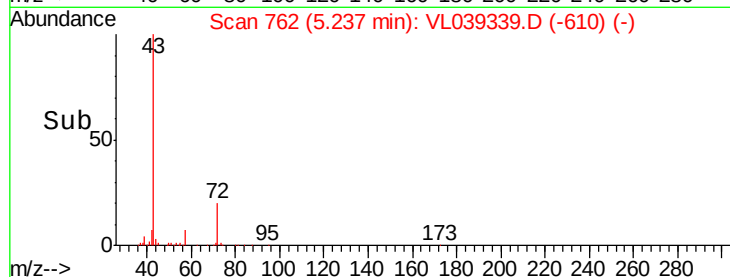
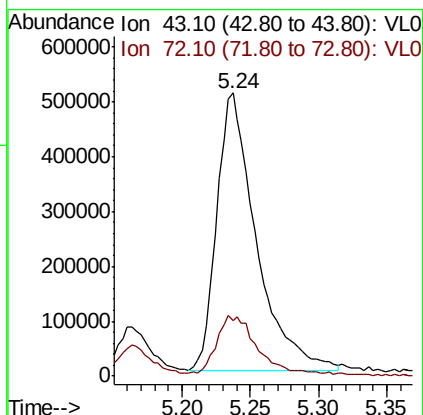
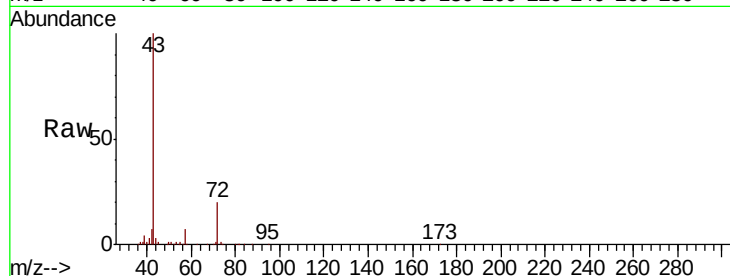
Tgt Ion	114	Resp	3393751
Ion Ratio	Lower	Upper	
114	100		
63	25.1	21.7	32.5
88	18.2	14.8	22.2





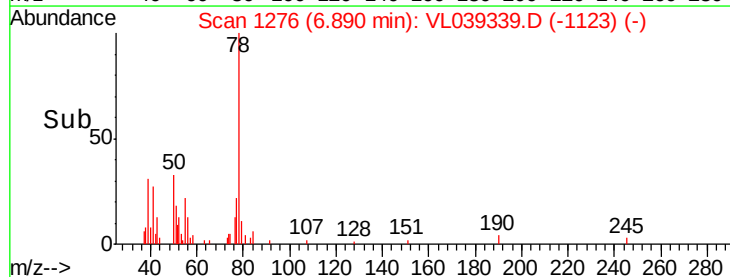
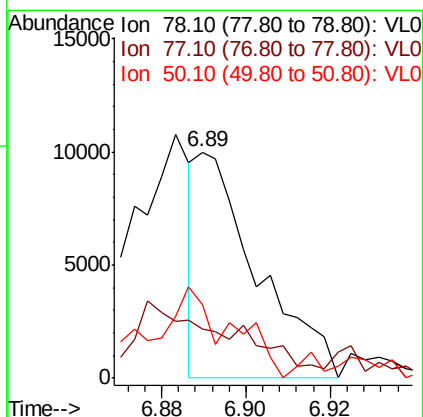
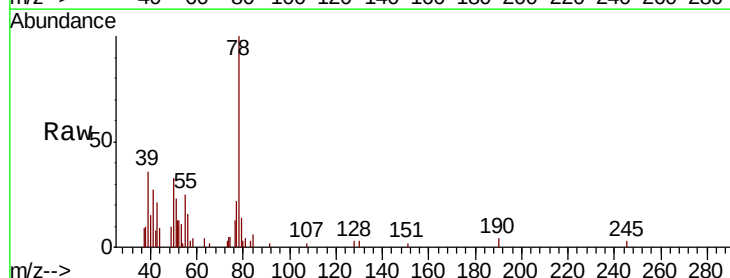
#34
2-Butanone
Concen: 5.472 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jun 2022 13:45

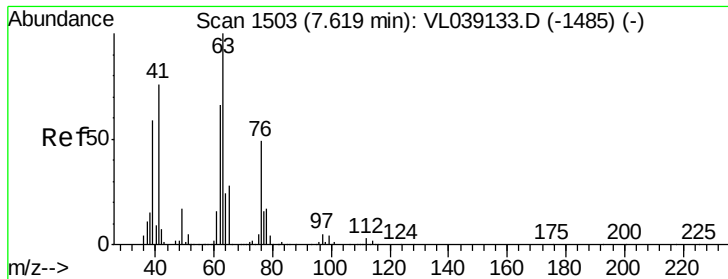
Tot Ion: 43 Resp: 1008862
Ion Ratio Lower Upper
43 100
72 24.8 18.2 27.2



#36
Benzene
Concen: 0.036 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL039339.D
Acq: 24 Jun 2022 13:45

Tgt Ion: 78 Resp: 9901
Ion Ratio Lower Upper
78 100
77 9.9 18.6 27.8#
50 25.3 15.8 23.8#





#39

1,2-Dichloropropane

Concen: 7.605 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SV-1-20220622

Acq: 24 Jun 2022 13:45

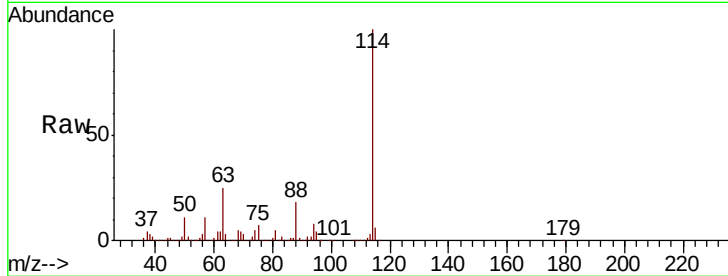
Tot Ion: 63 Resp: 833423

Ion Ratio Lower Upper

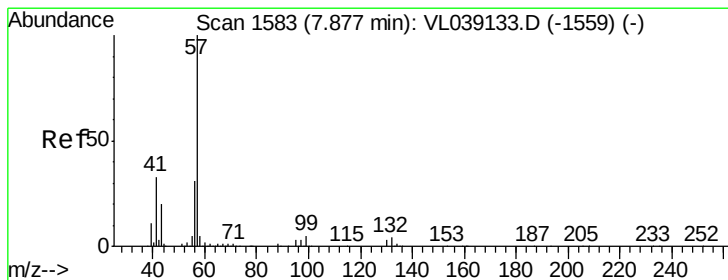
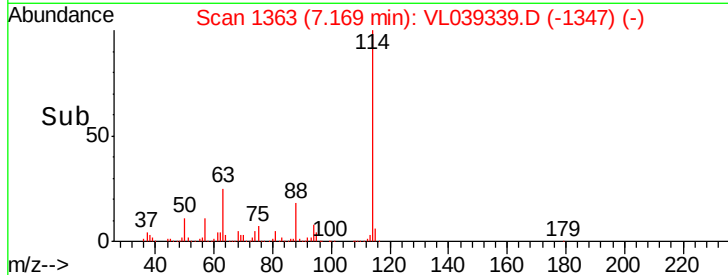
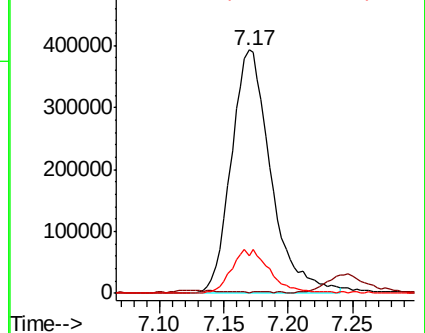
63 100

41 0.0 60.8 91.2#

62 15.3 52.9 79.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.082 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. -0.01 min

Lab File: VL039339.D

Acq: 24 Jun 2022 13:45

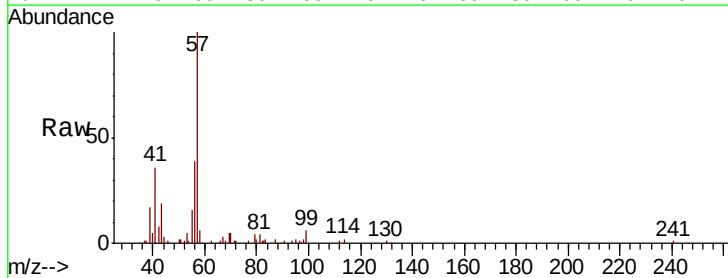
Tgt Ion: 57 Resp: 39515

Ion Ratio Lower Upper

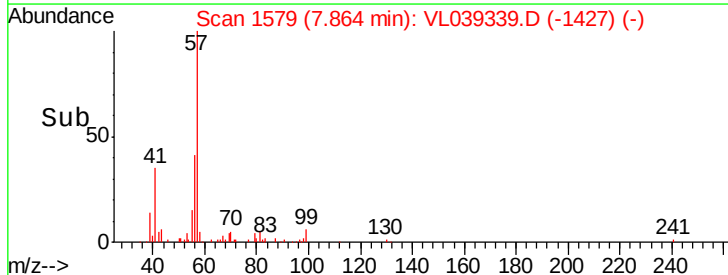
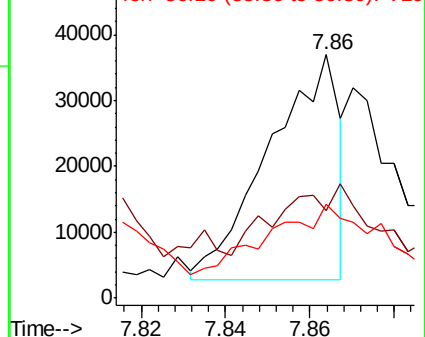
57 100

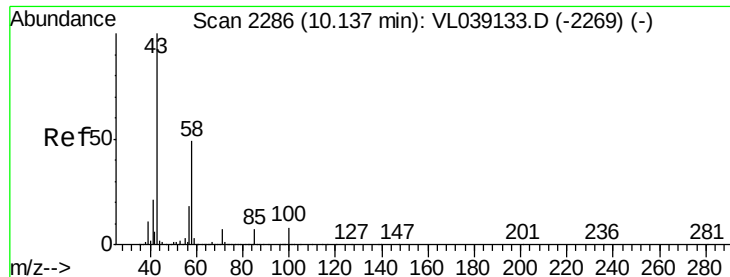
41 0.0 26.2 39.4#

56 84.6 24.7 37.1#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#51

2-Hexanone

Concen: 1.257 ppbv

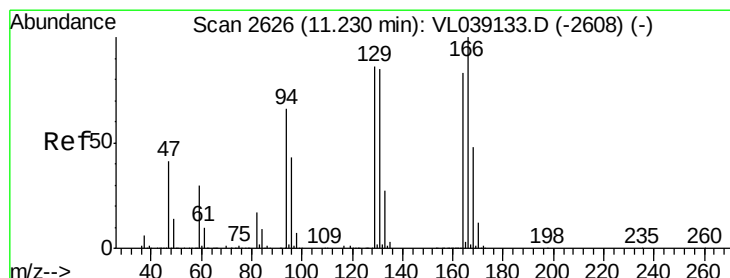
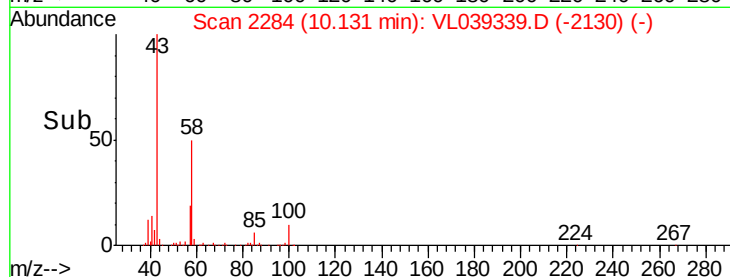
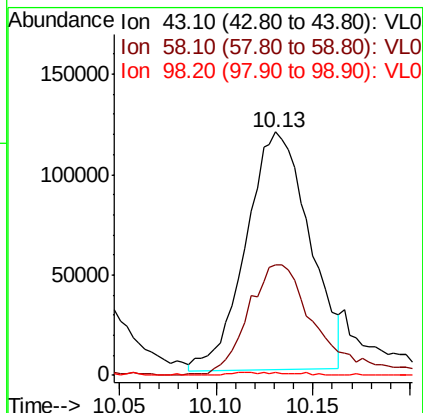
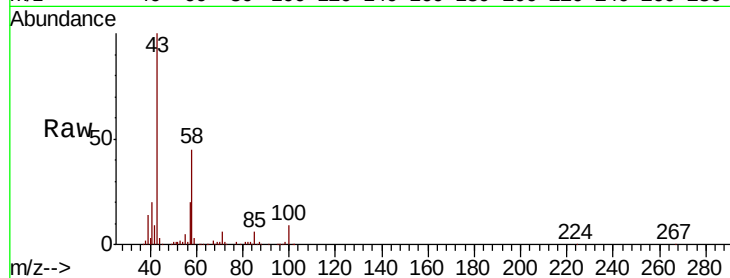
RT: 10.13

Delta R.T. MSVOA_L

Lab File: ClientSampled:

Acq: 24 Jun 2022 13:45

Tot Ion:	43	Resp:	270007
Ion	Ratio	Lower	Upper
43	100		
58	52.4	40.0	60.0
98	1.4	0.1	0.1#



#52

Tetrachloroethene

Concen: 0.135 ppbv

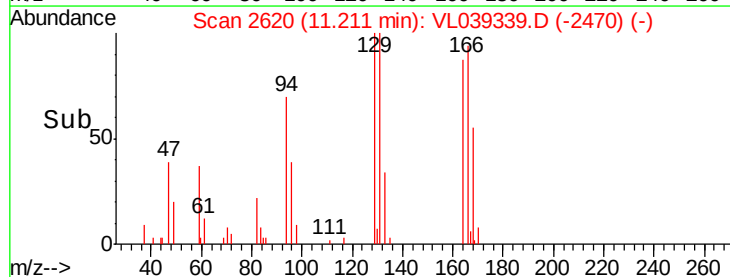
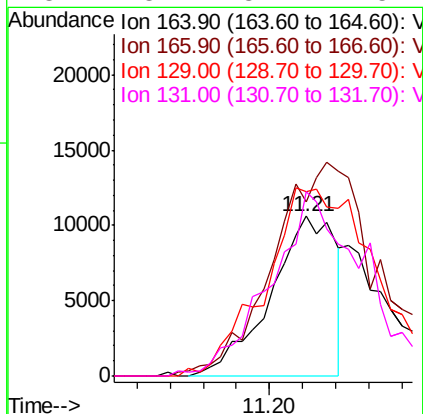
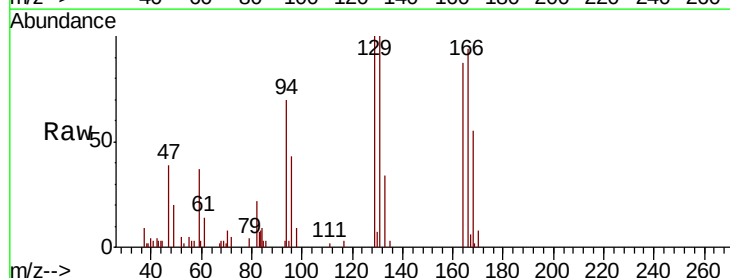
RT: 11.21 min Scan# 2620

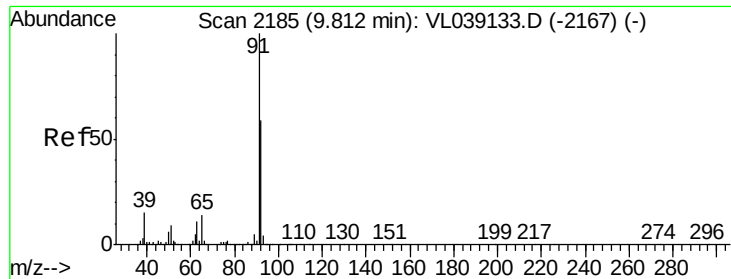
Delta R.T. -0.02 min

Lab File: VL039339.D

Acq: 24 Jun 2022 13:45

Tgt Ion:	164	Resp:	14533
Ion	Ratio	Lower	Upper
164	100		
166	105.6	96.3	144.5
129	110.7	82.5	123.7
131	113.4	82.1	123.1





#53

Toluene

Concen: 0.180 ppbv

RT: 9.80

Delta R.T.

Lab File:

Acq: 24 Jun 2022 13:45

Instrument:

MSVOA_L

ClientSampleId:

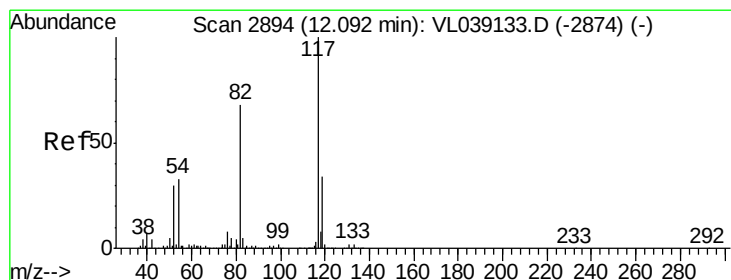
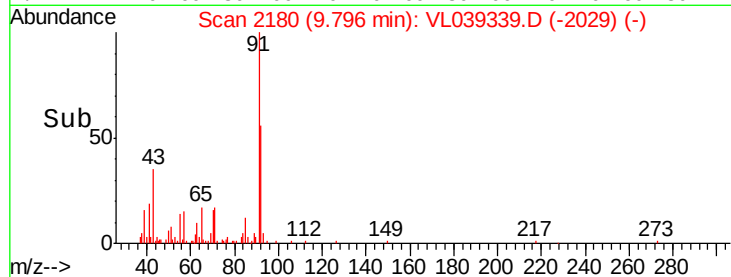
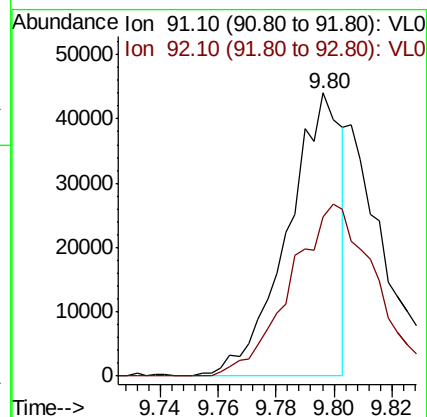
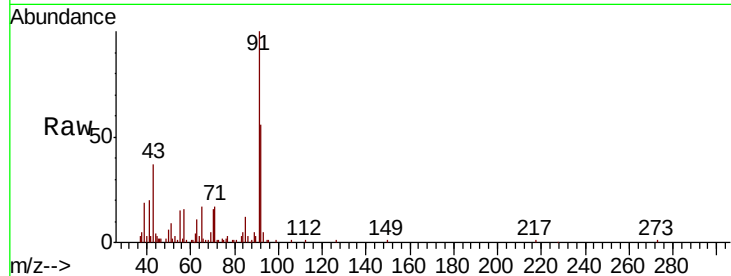
SV-1-20220622

Tot Ion: 91 Resp: 56965

Ion Ratio Lower Upper

91 100

92 96.8 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.02 min

Lab File: VL039339.D

Acq: 24 Jun 2022 13:45

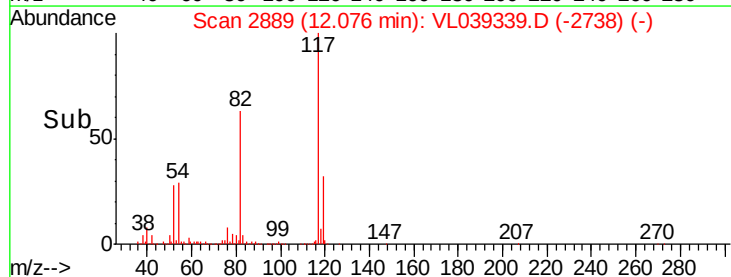
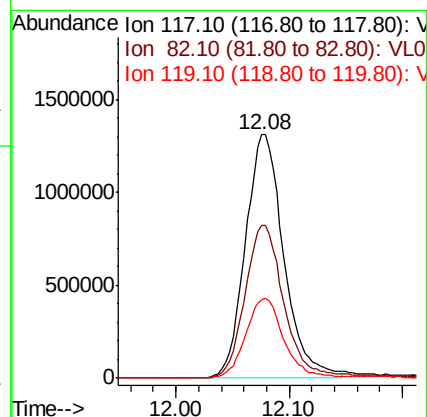
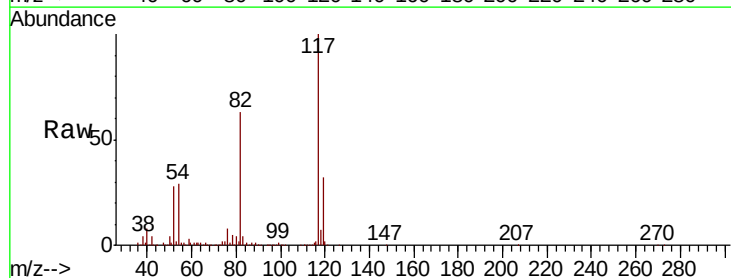
Tgt Ion: 117 Resp: 3089163

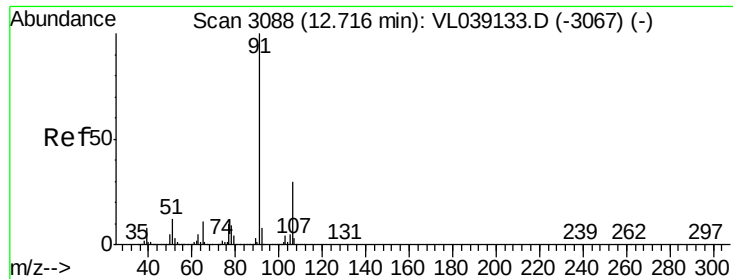
Ion Ratio Lower Upper

117 100

82 65.7 55.1 82.7

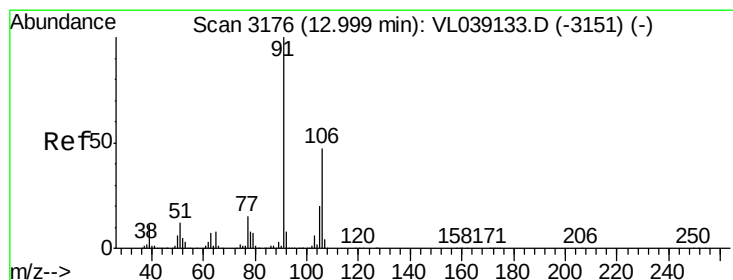
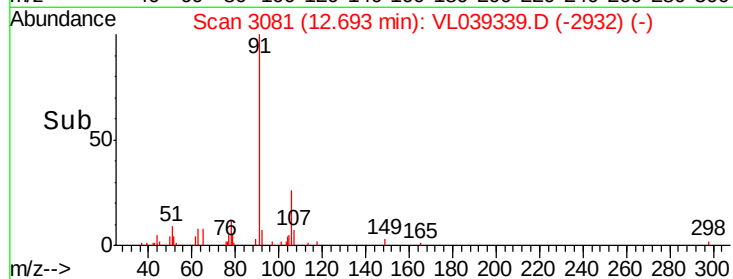
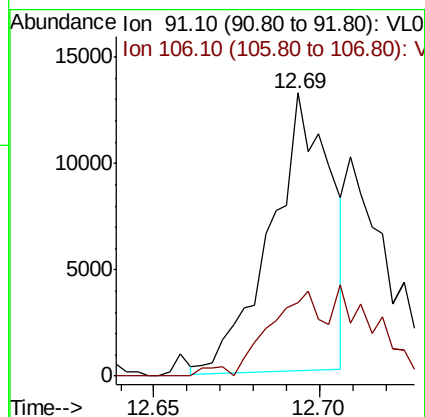
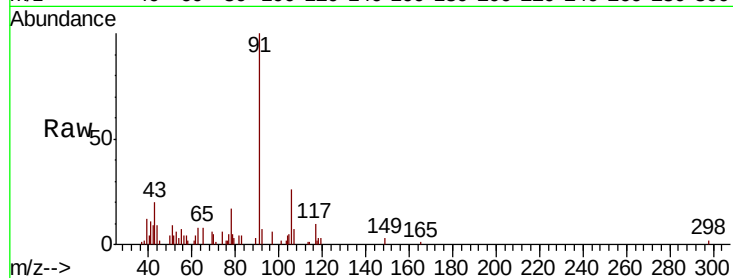
119 33.3 24.7 37.1





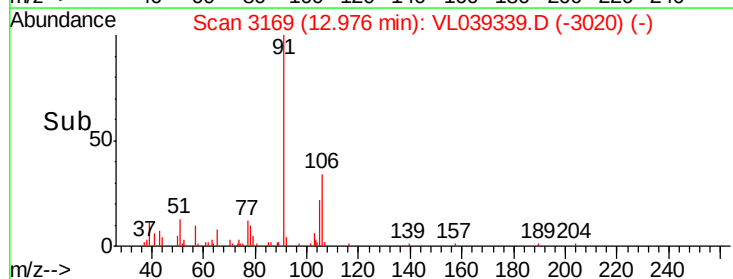
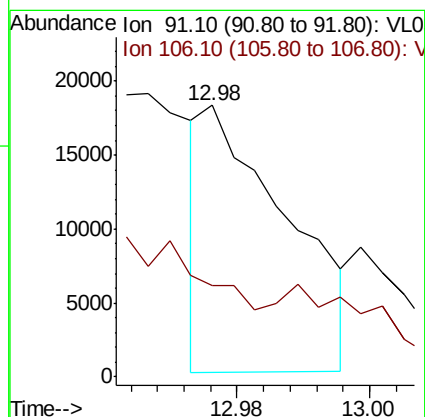
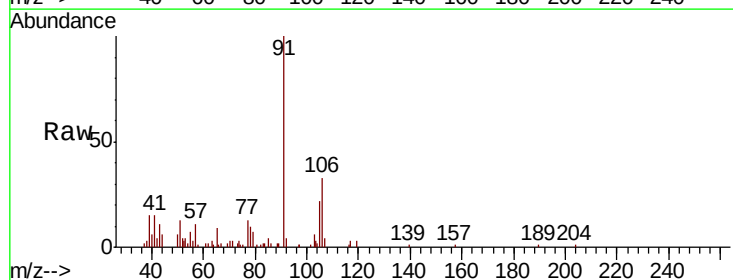
#58
Ethyl Benzene
Concen: 0.039 ppbv
RT: 12.69 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV-1-20220622
Acq: 24 Jun 2022 13:45

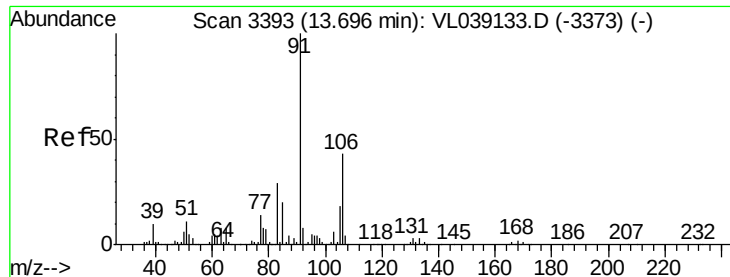
Tot Ion: 91 Resp: 16447
Ion Ratio Lower Upper
91 100
106 26.6 24.2 36.4



#59
m/p-Xylene
Concen: 0.043 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.02 min
Lab File: VL039339.D
Acq: 24 Jun 2022 13:45

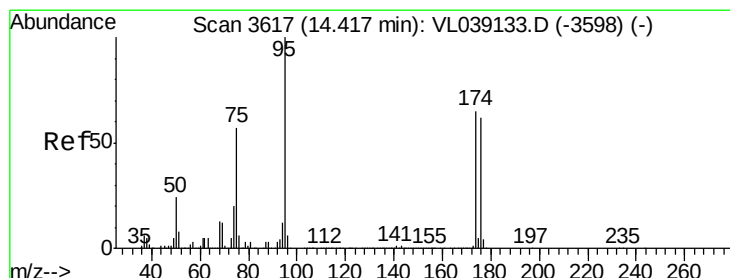
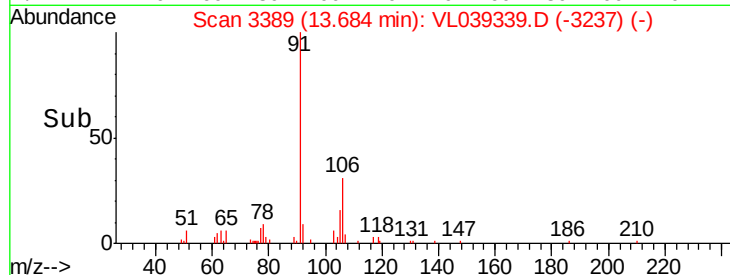
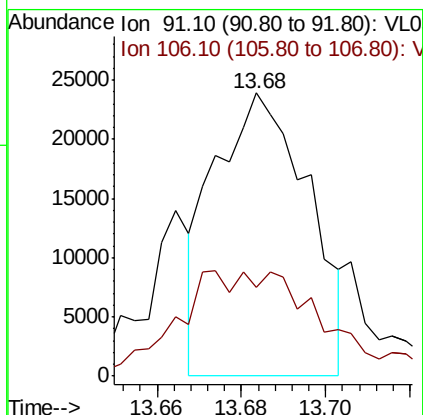
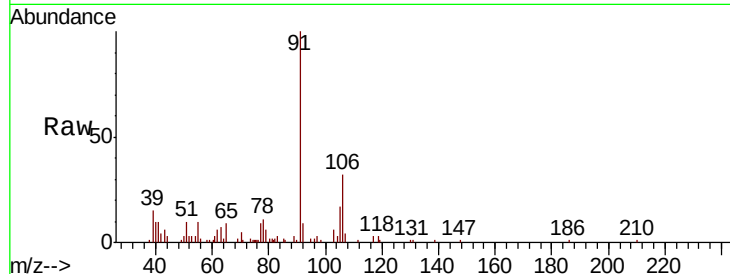
Tgt Ion: 91 Resp: 16004
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5#





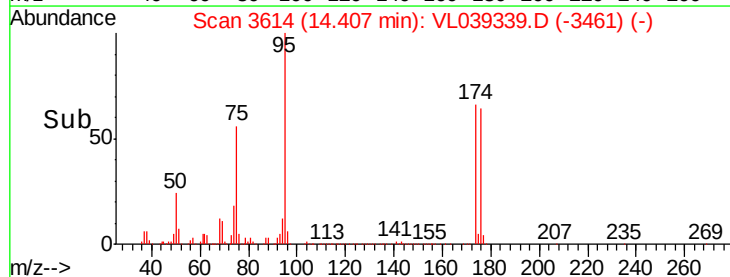
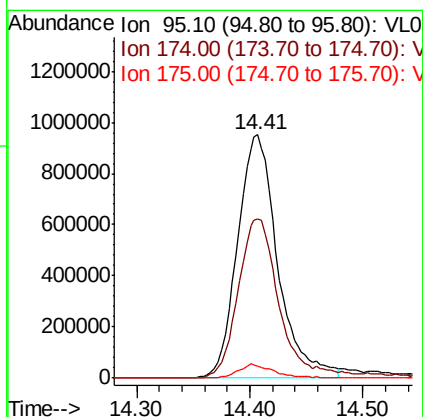
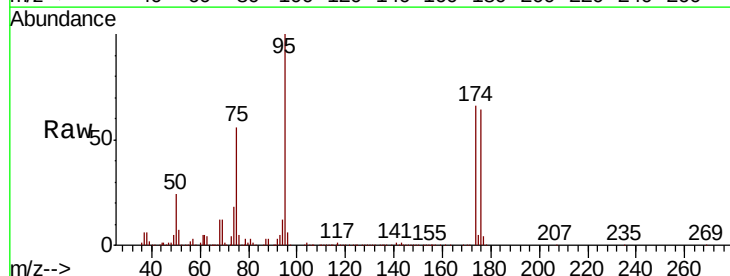
#60
o-Xylene
Concen: 0.106 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-1-20220622
Acq: 24 Jun 2022 13:45

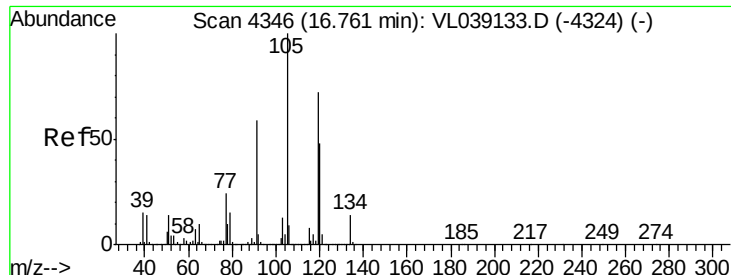
Tot Ion: 91 Resp: 37191
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.195 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.01 min
Lab File: VL039339.D
Acq: 24 Jun 2022 13:45

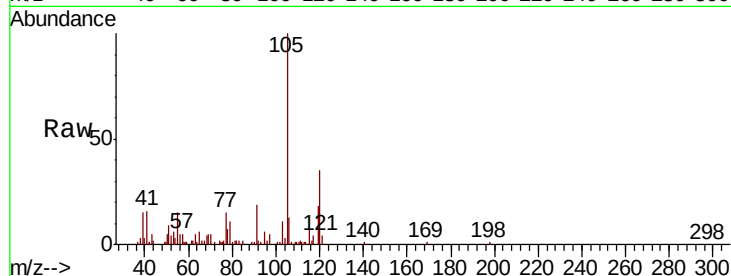
Tgt Ion: 95 Resp: 2348402
Ion Ratio Lower Upper
95 100
174 69.9 53.8 80.8
175 5.4 4.1 6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.170 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SV-1-20220622
 Acq: 24 Jun 2022 15.45

Tot Ion:	105	Resp:	70652
Ion	Ratio	Lower	Upper
105	100		
120	39.5	38.1	57.1
91	18.1	47.4	71.0#
77	15.1	19.5	29.3#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

