

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070620\
 Data File : VL035154.D
 Acq On : 6 Jul 2020 20:28
 Operator : SY/AP
 Sample : L3190-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

Quant Time: Jul 07 05:05:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 02:10:36 2020
 QLast Update : Sat Jun 20 02:10:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1015930	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2415115	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2310395	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1981437	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.00	85	33781	0.246 ppbv	# 88
3) Chlorodifluoromethane	2.94	51	58003	0.517 ppbv	93
4) Chloromethane	3.09	50	41409	0.658 ppbv	97
5) Vinyl Chloride	2.97	62	1614485	26.986 ppbv	# 48
6) Bromomethane	3.43	94	1353	0.036 ppbv	# 73
7) Chloroethane	3.52	64	729	0.032 ppbv	# 44
9) Propene	2.96	41	699532	15.741 ppbv	91
10) Heptane	8.12	43	23718	0.206 ppbv	# 77
11) Trichlorofluoromethane	3.91	101	11774	0.080 ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.46	101	5965	0.059 ppbv	98
13) Ethanol	3.57	45	773313	46.063 ppbv	99
15) Acetone	3.81	43	7330986	59.685 ppbv	# 79
16) 1,3-Butadiene	3.26	39	798660	14.826 ppbv	# 13
17) tert-Butyl alcohol	4.27	59	1532470	14.078 ppbv	98
19) Isopropyl Alcohol	3.94	45	490214	6.147 ppbv	# 93
20) Methylene Chloride	4.31	84	5293586	106.486 ppbv	85
21) Allyl Chloride	4.31	41	286775	3.929 ppbv	# 1
22) trans-1,2-Dichloroethene	4.86	96	1730	0.040 ppbv	# 31
23) Vinyl Acetate	5.04	43	379822	2.548 ppbv	# 82
25) Ethyl Acetate	5.67	43	2331912	10.520 ppbv	# 81
26) Hexane	5.67	57	2756780	27.584 ppbv	# 46
27) Carbon Disulfide	4.52	76	1812467	17.524 ppbv	98
29) Chloroform	5.74	83	24245	0.155 ppbv	96
30) Cyclohexane	7.13	84	2448	0.034 ppbv	# 1
34) 2-Butanone	5.23	43	295956	2.134 ppbv	98
35) Carbon Tetrachloride	7.02	117	4756	0.033 ppbv	# 60
36) Benzene	6.89	78	3776157	20.192 ppbv	97
37) 1,2-Dichloroethane	6.30	62	14164	0.120 ppbv	98
39) 1,2-Dichloropropane	7.61	63	32321	0.442 ppbv	91
41) Tetrahydrofuran	5.67	42	1059400	14.955 ppbv	# 48
42) Bromodichloromethane	7.80	83	4772	0.031 ppbv	# 74
44) 2,2,4-Trimethylpentane	7.87	57	69771	0.214 ppbv	# 82
50) 4-Methyl-2-Pentanone	8.74	43	8675	0.044 ppbv	# 38
51) 2-Hexanone	10.43	43	847161	5.490 ppbv	# 49
52) Tetrachloroethene	11.25	164	2047	0.031 ppbv	# 50
53) Toluene	9.82	91	578290	2.899 ppbv	98
58) Ethyl Benzene	12.74	91	32209	0.124 ppbv	93
59) m/p-Xylene	13.01	91	37721	0.164 ppbv	# 31
60) o-Xylene	13.71	91	55498	0.242 ppbv	92
61) Styrene	13.55	104	11158	0.077 ppbv	# 1
62) Isopropylbenzene	14.69	105	316349	0.926 ppbv	97

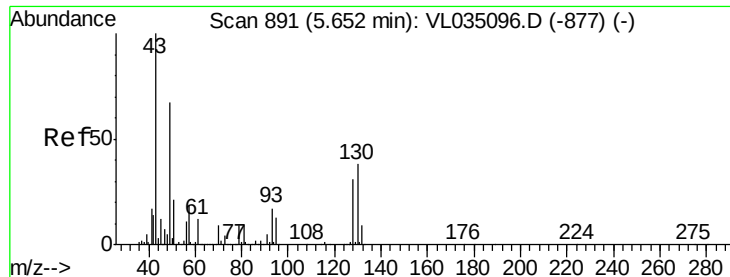
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070620\
Data File : VL035154.D
Acq On : 6 Jul 2020 20:28
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EXHAUST-02

Quant Time: Jul 07 05:05:37 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 02:10:36 2020
QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	15.58	91	15176	0.059	ppbv #	50
72) 4-Ethyltoluene	15.86	105	12216	0.048	ppbv #	55
73) 1,3,5-Trimethylbenzene	16.02	105	7580	0.031	ppbv #	69
74) 1,2,4-Trimethylbenzene	16.79	105	72344	0.269	ppbv #	51
79) Naphthalene	22.24	128	54017	0.229	ppbv #	91
80) Naphthalene,2-methyl-	25.02	142	12441	0.138	ppbv	95

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

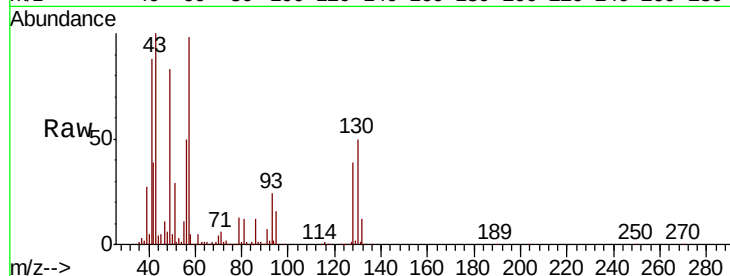
Tot Ion: 49 Resp: 1015930

Ion Ratio Lower Upper

49 100

128 47.1 22.9 68.5

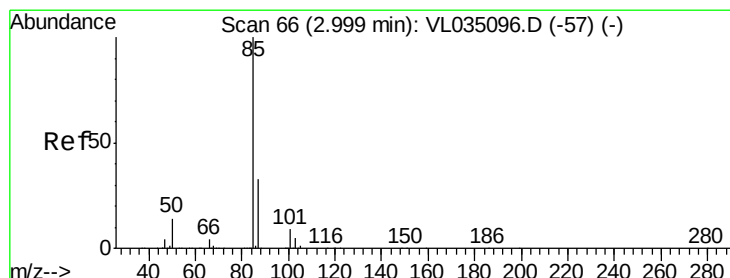
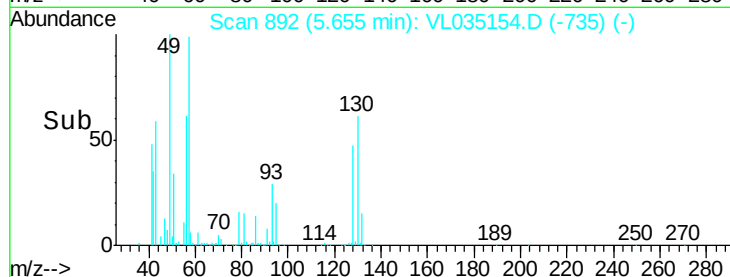
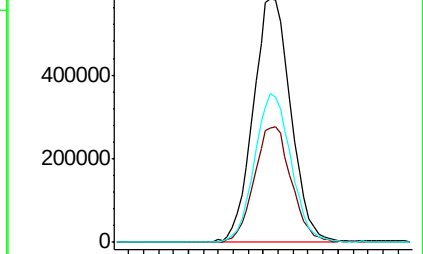
130 59.3 29.0 87.0



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: 0.246 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL035154.D

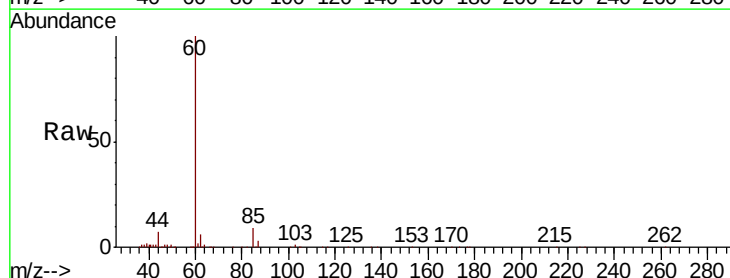
Acq: 6 Jul 2020 20:28

Tgt Ion: 85 Resp: 33781

Ion Ratio Lower Upper

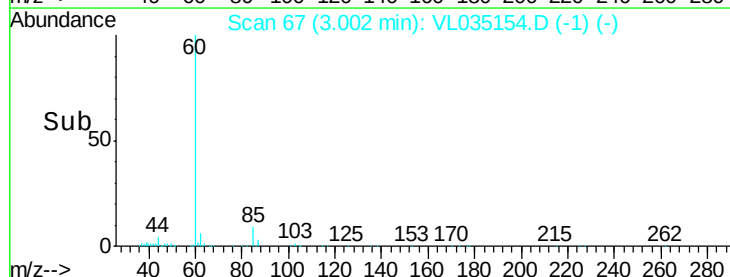
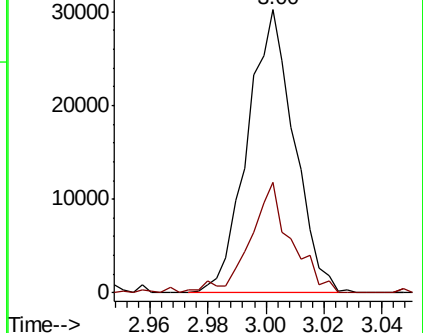
85 100

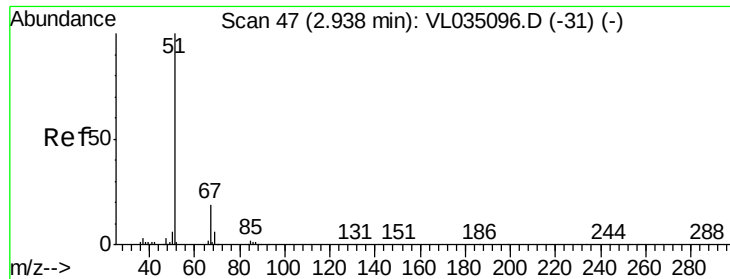
87 39.2 26.1 39.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.517 ppbv

RT: 2.94 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

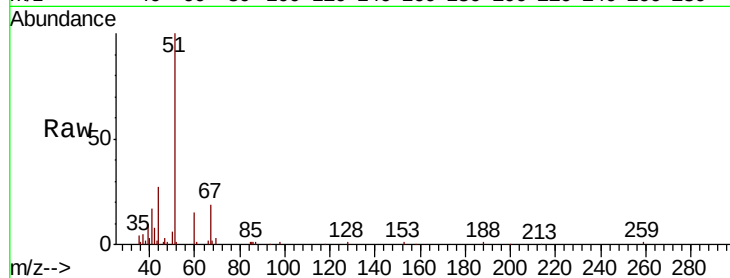
EXHAUST-02

Tot Ion: 51 Resp: 58003

Ion Ratio Lower Upper

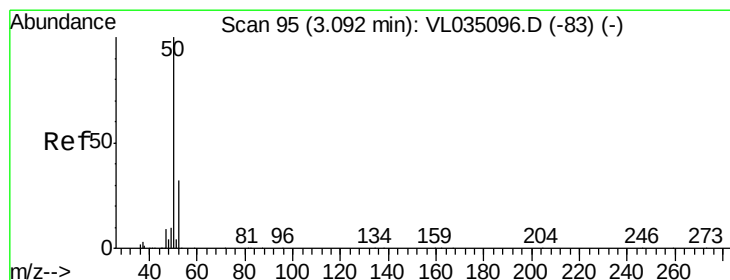
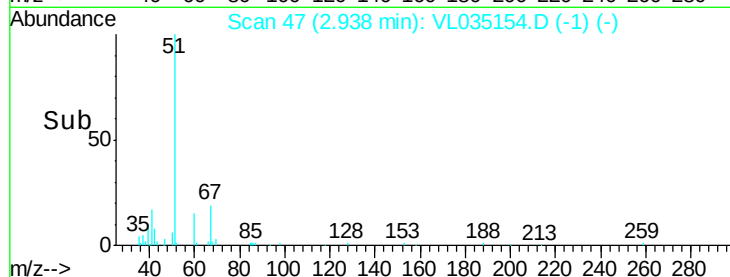
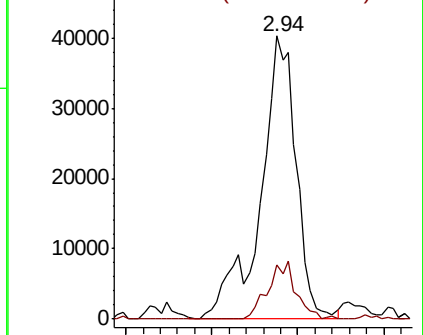
51 100

67 16.0 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.658 ppbv

RT: 3.09 min Scan# 94

Delta R.T. -0.00 min

Lab File: VL035154.D

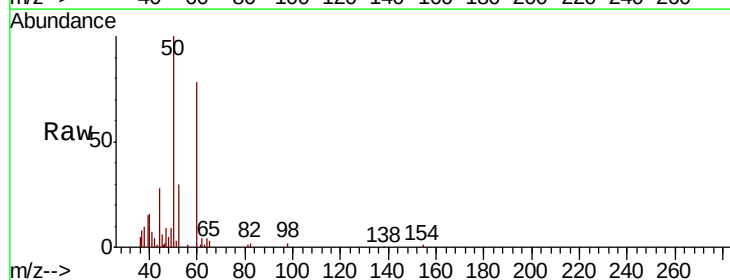
Acq: 6 Jul 2020 20:28

Tgt Ion: 50 Resp: 41409

Ion Ratio Lower Upper

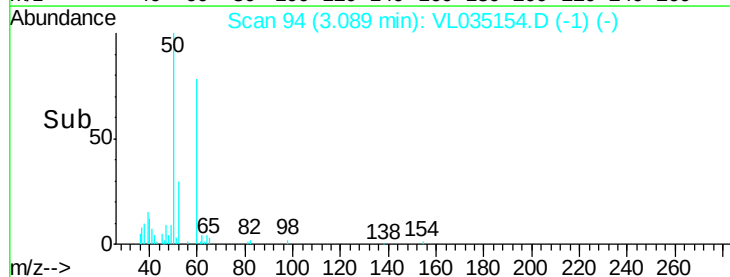
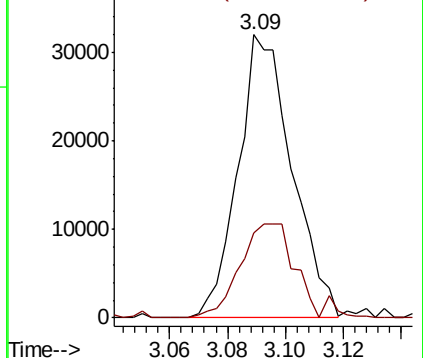
50 100

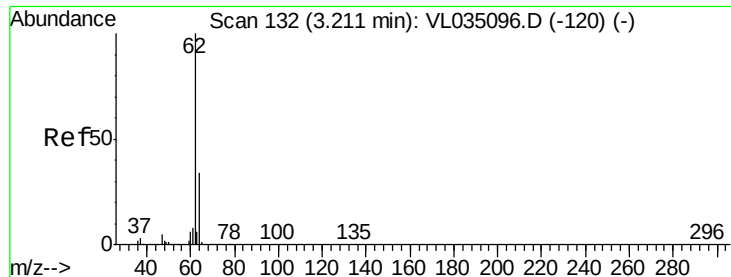
52 29.9 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 26.986 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.24 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

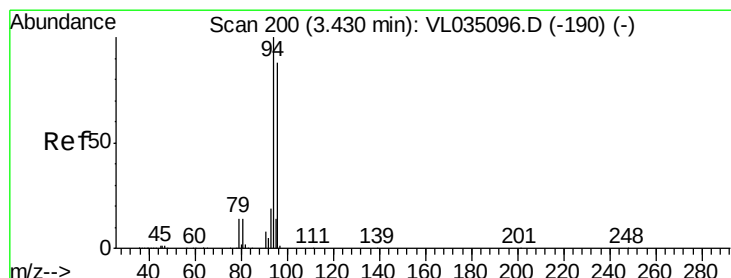
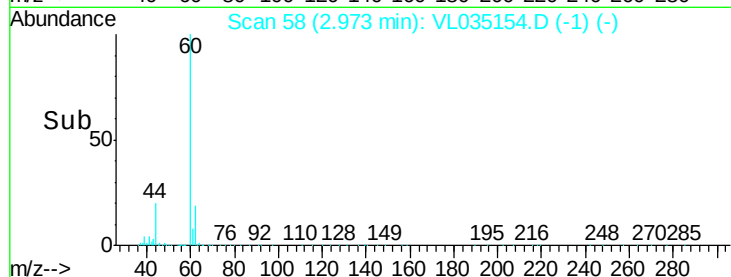
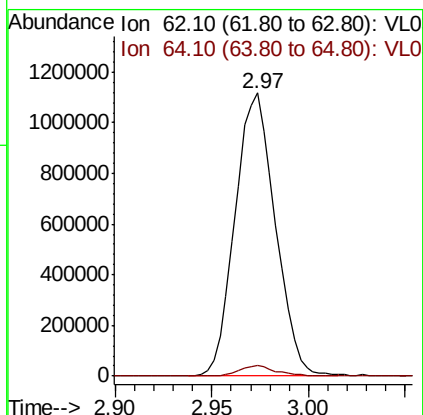
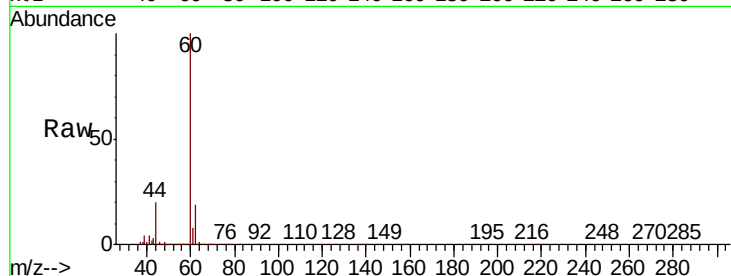
EXHAUST-02

Tot Ion: 62 Resp: 1614485

Ion Ratio Lower Upper

62 100

64 3.8 27.0 40.4#



#6

Bromomethane

Concen: 0.036 ppbv

RT: 3.43 min Scan# 200

Delta R.T. 0.00 min

Lab File: VL035154.D

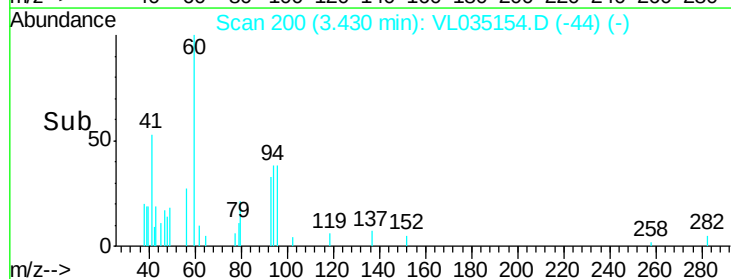
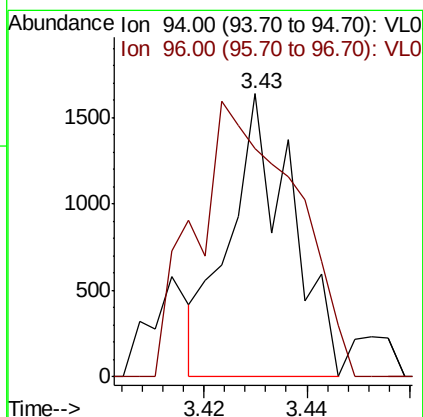
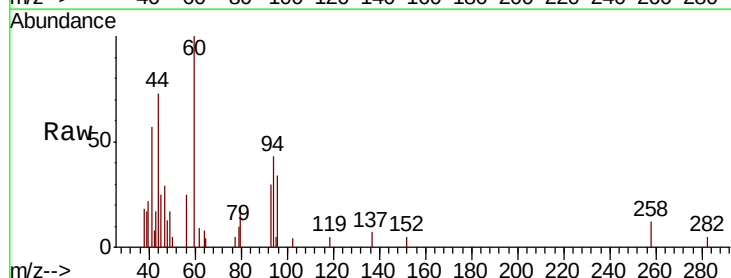
Acq: 6 Jul 2020 20:28

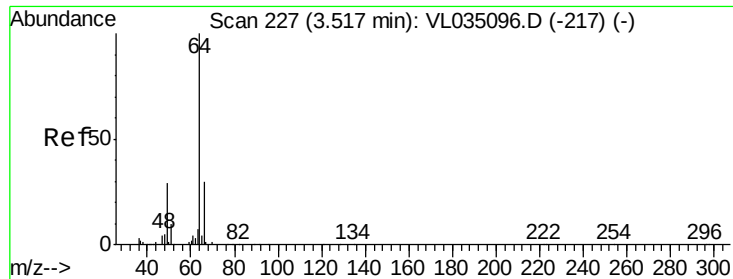
Tgt Ion: 94 Resp: 1353

Ion Ratio Lower Upper

94 100

96 62.6 70.2 105.2#





#7

Chloroethane

Concen: 0.032 ppbv

RT: 3.52 min Scan# 227

Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

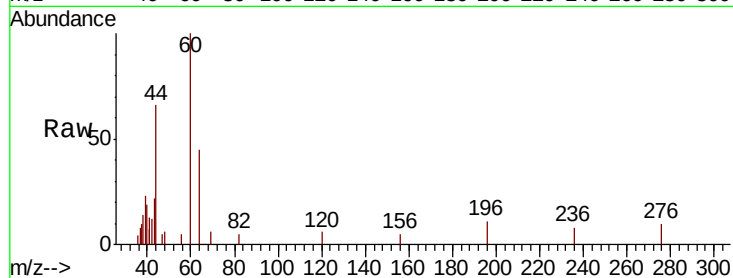
EXHAUST-02

Tot Ion: 64 Resp: 729

Ion Ratio Lower Upper

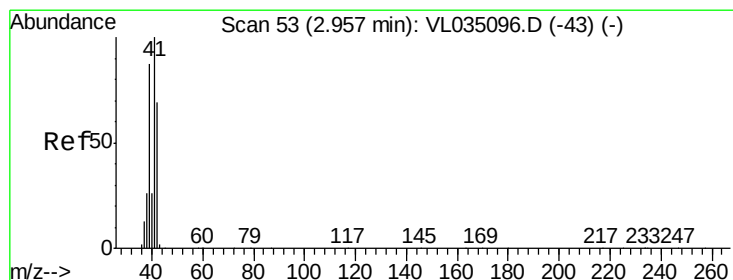
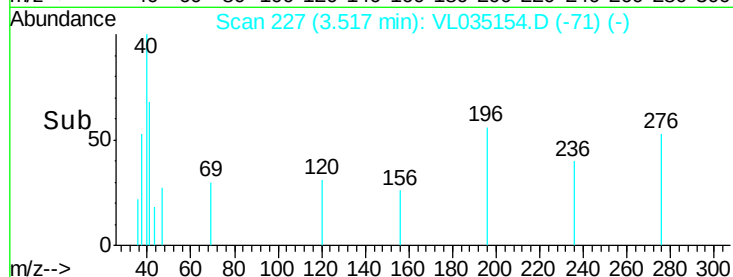
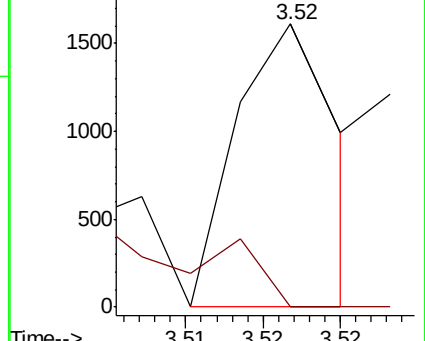
64 100

66 0.0 24.2 36.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 15.741 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL035154.D

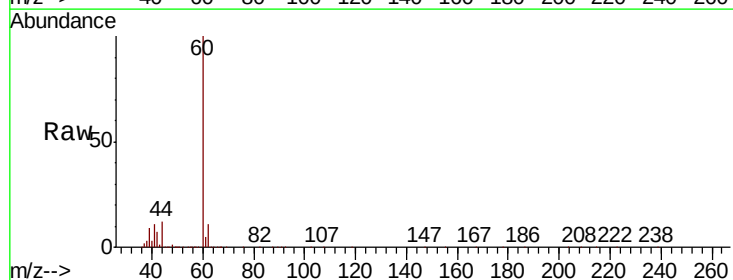
Acq: 6 Jul 2020 20:28

Tgt Ion: 41 Resp: 699532

Ion Ratio Lower Upper

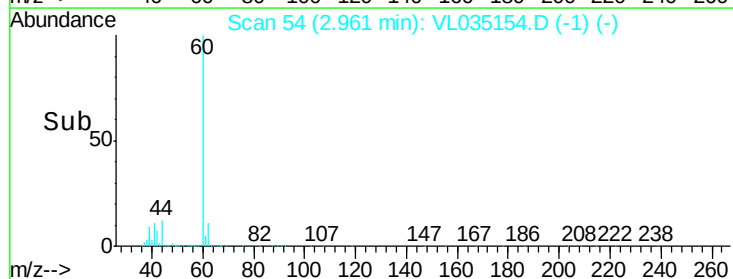
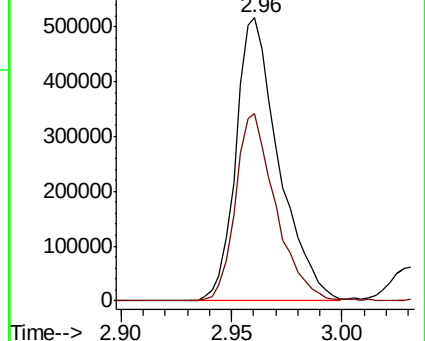
41 100

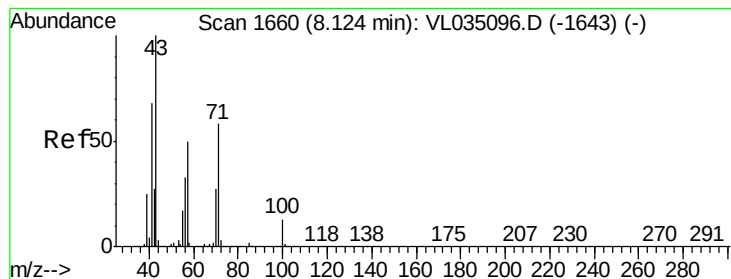
42 62.1 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.206 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

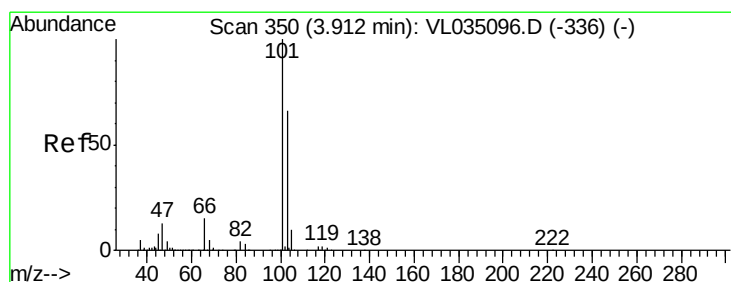
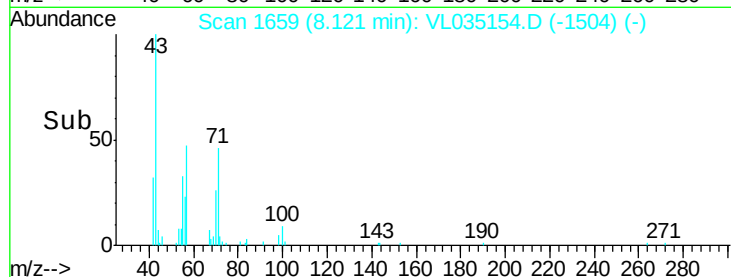
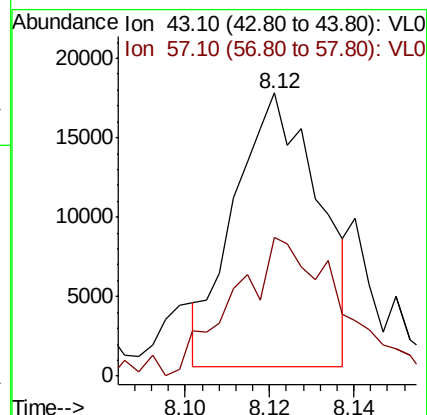
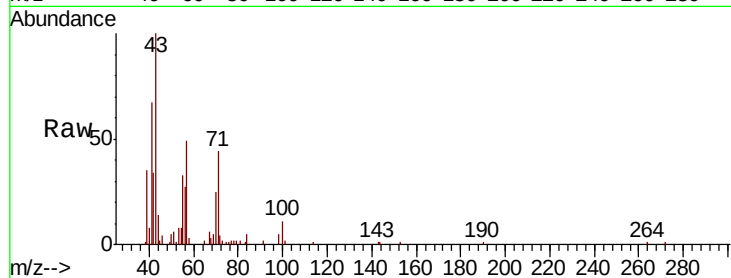
EXHAUST-02

Tot Ion: 43 Resp: 23718

Ion Ratio Lower Upper

43 100

57 68.3 41.9 62.9#



#11

Trichlorofluoromethane

Concen: 0.080 ppbv

RT: 3.91 min Scan# 350

Delta R.T. 0.00 min

Lab File: VL035154.D

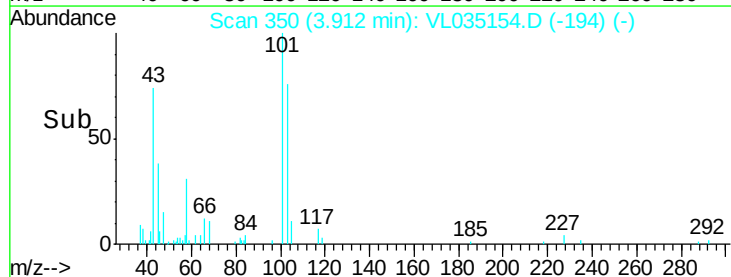
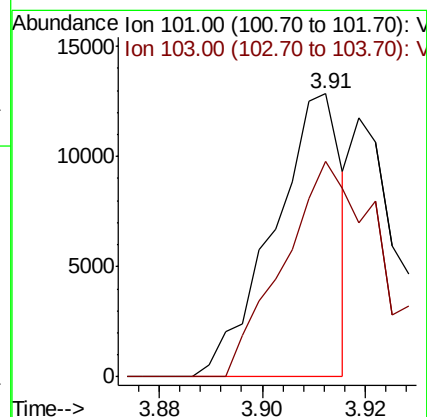
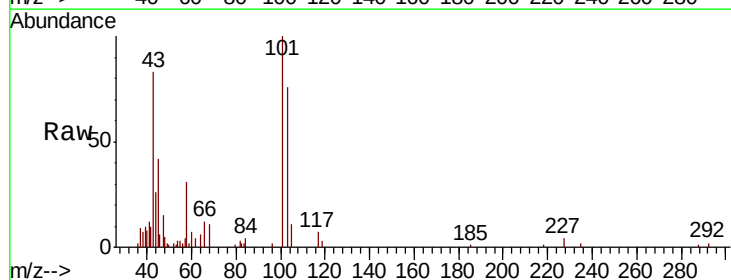
Acq: 6 Jul 2020 20:28

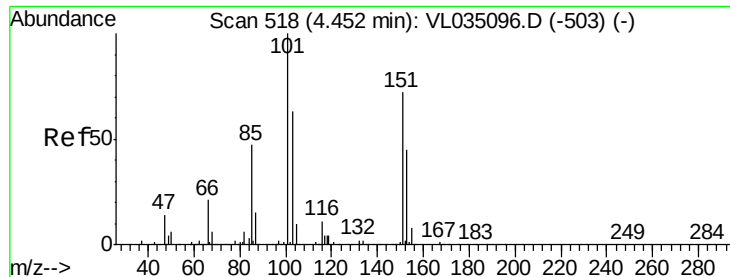
Tgt Ion: 101 Resp: 11774

Ion Ratio Lower Upper

101 100

103 76.3 52.6 79.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.059 ppbv

RT: 4.46 min Scan# 519

Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

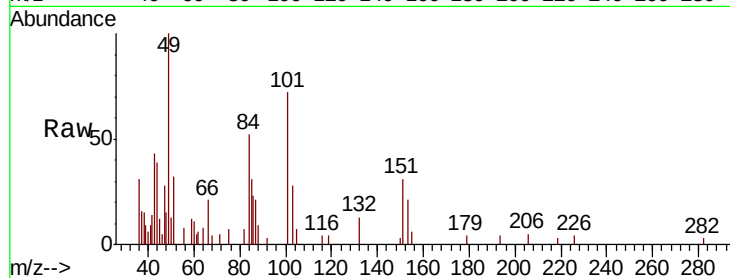
EXHAUST-02

Tot Ion:101 Resp: 5965

Ion Ratio Lower Upper

101 100

151 72.3 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

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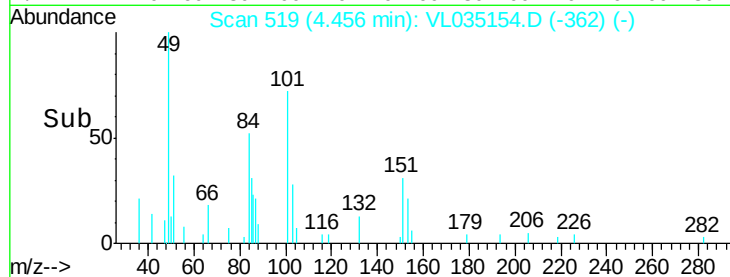
4.46

4.46

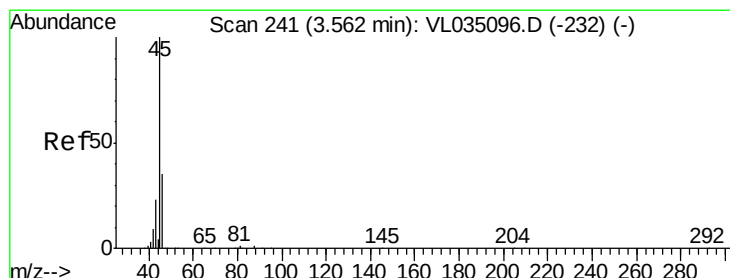
4.46

4.46

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Time-->



#13

Ethanol

Concen: 46.063 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.01 min

Lab File: VL035154.D

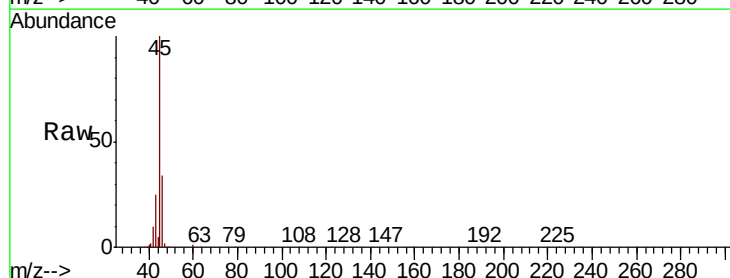
Acq: 6 Jul 2020 20:28

Tgt Ion: 45 Resp: 773313

Ion Ratio Lower Upper

45 100

46 36.0 14.2 57.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

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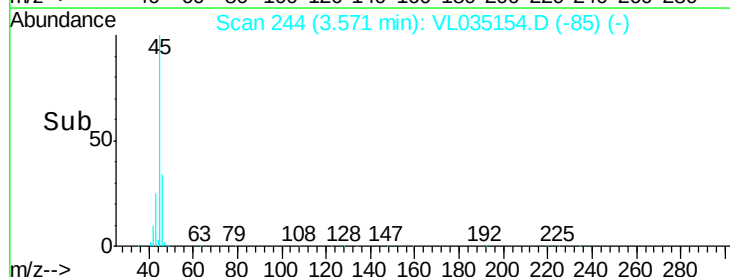
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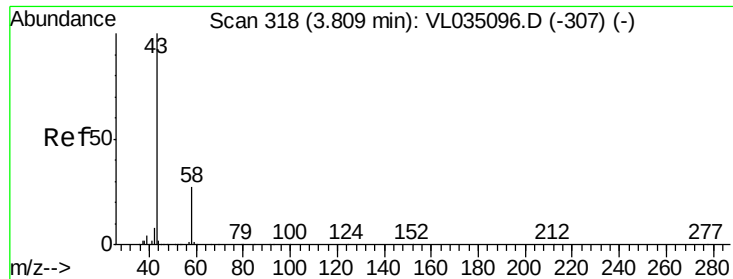
3.57

3.57

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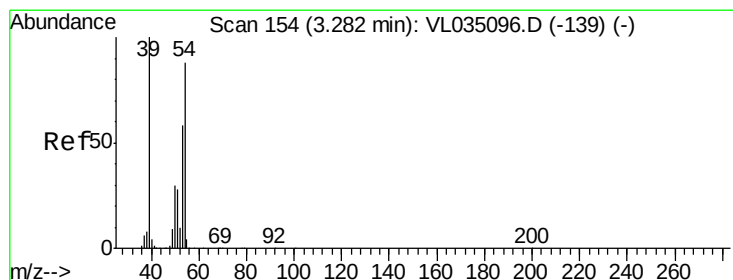
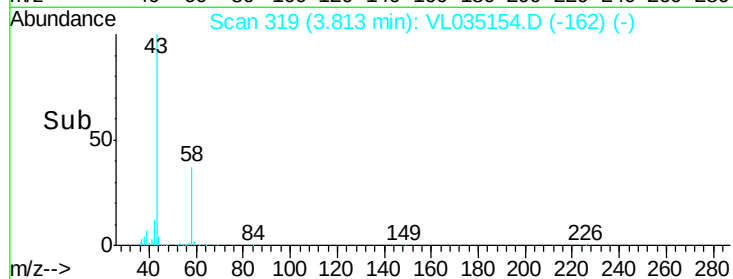
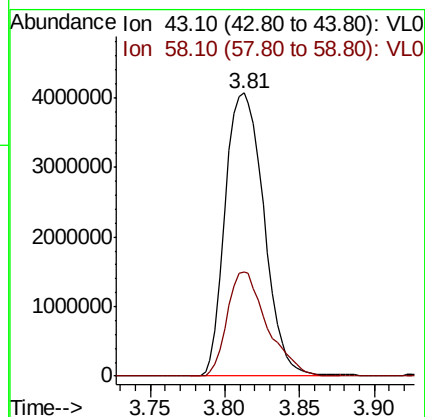
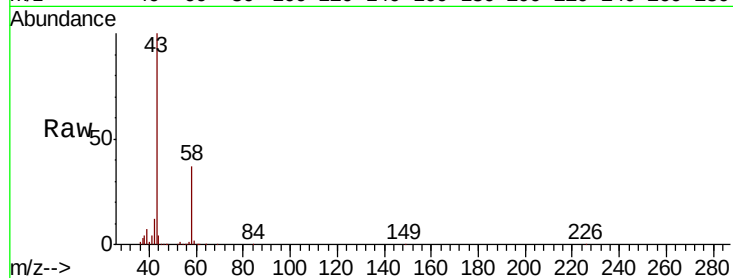
Time-->



#15
Acetone
Concen: 59.685 ppbv
RT: 3.81 min Scan# 319
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

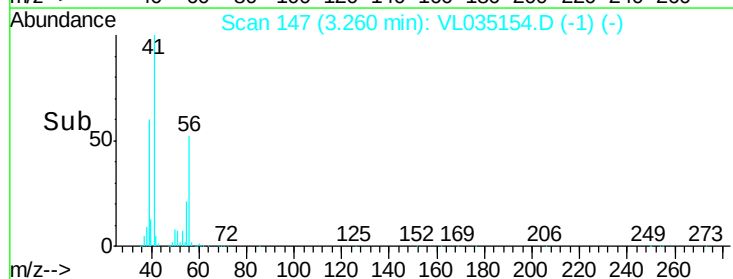
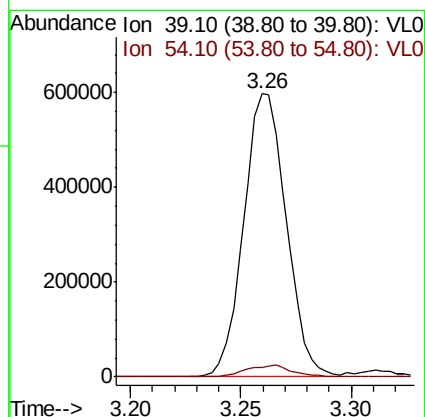
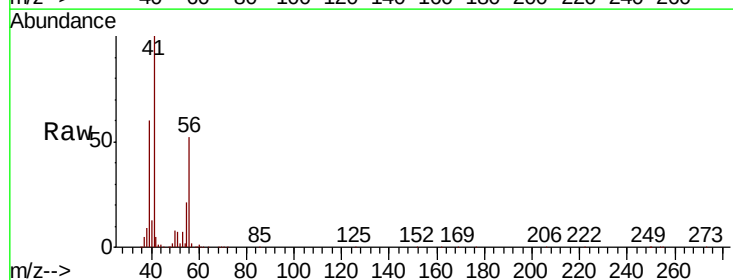
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

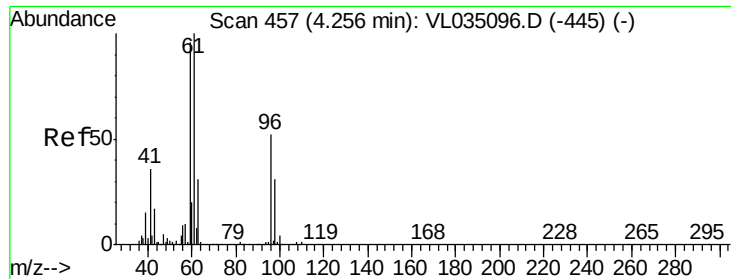
Tot Ion: 43 Resp: 7330986
Ion Ratio Lower Upper
43 100
58 38.1 21.8 32.6#



#16
1,3-Butadiene
Concen: 14.826 ppbv
RT: 3.26 min Scan# 147
Delta R.T. -0.02 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 39 Resp: 798660
Ion Ratio Lower Upper
39 100
54 4.6 67.0 100.4#

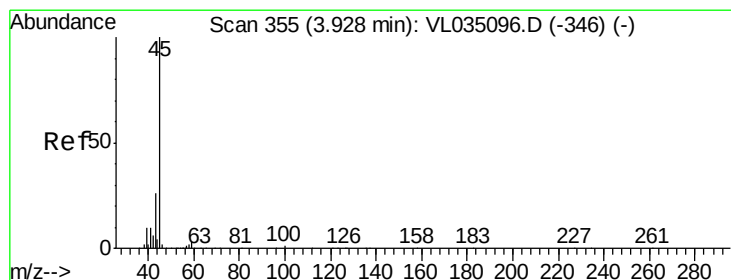
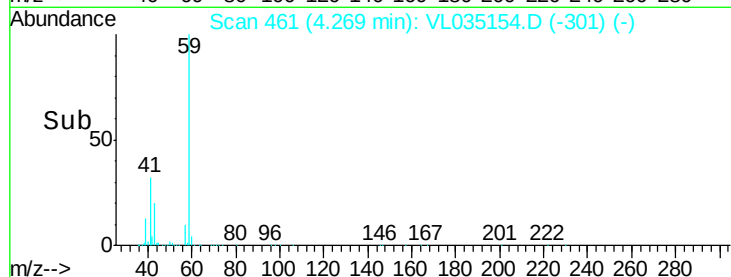
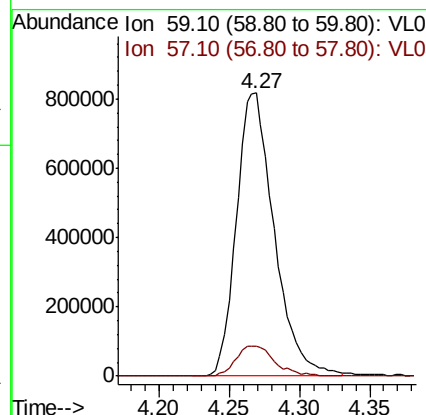
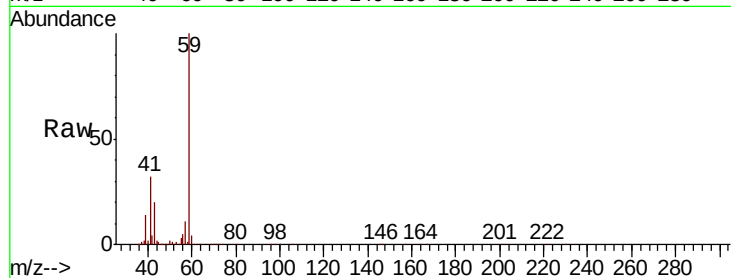




#17
tert-Butyl alcohol
Concen: 14.078 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

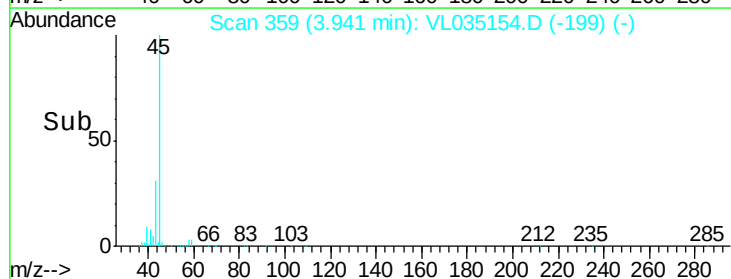
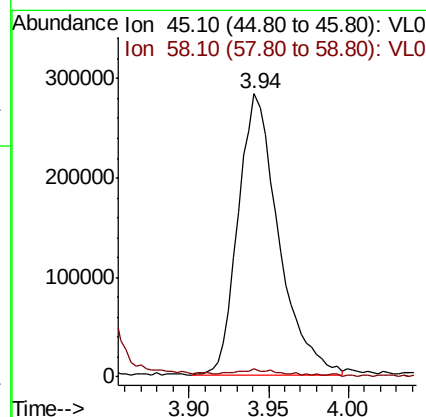
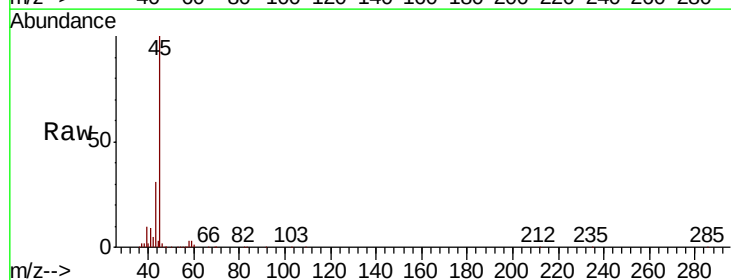
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

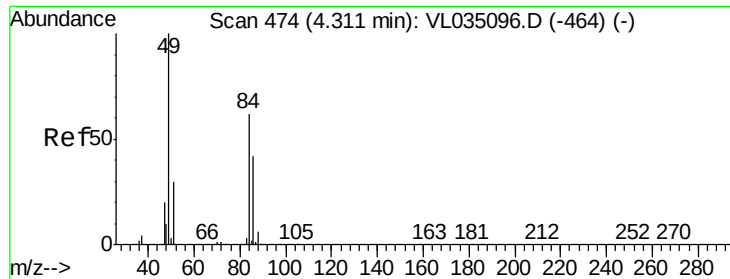
Tot Ion: 59 Resp: 1532470
Ion Ratio Lower Upper
59 100
57 11.3 8.6 12.8



#19
Isopropyl Alcohol
Concen: 6.147 ppbv
RT: 3.94 min Scan# 359
Delta R.T. 0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 45 Resp: 490214
Ion Ratio Lower Upper
45 100
58 0.0 1.8 2.8#

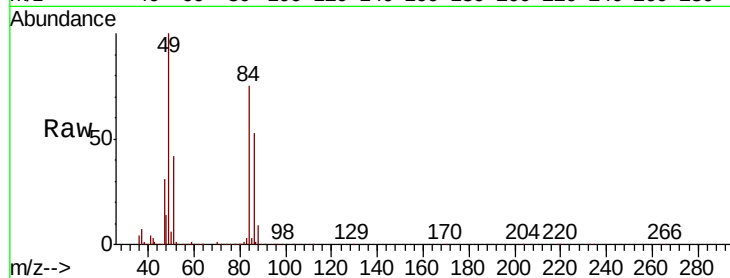




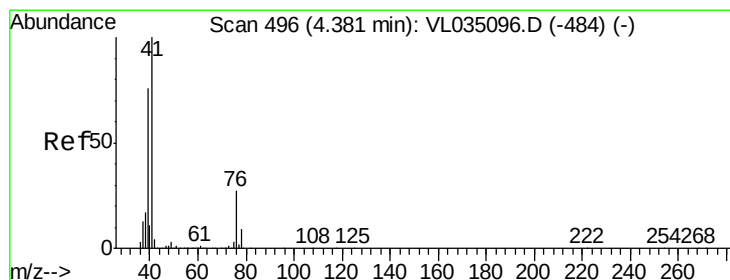
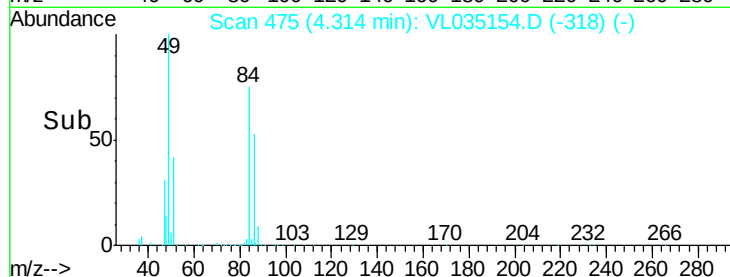
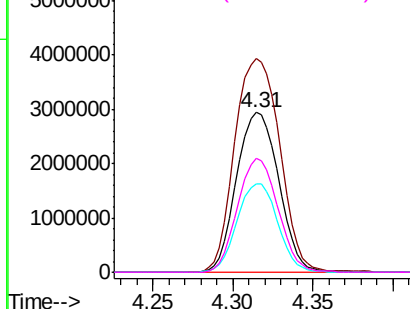
#20
Methylene Chloride
Concen: 106.486 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Tot Ion: 84 Resp: 5293586
Ion Ratio Lower Upper
84 100
49 133.5 128.8 193.2
51 55.3 38.7 58.1
86 71.0 54.1 81.1

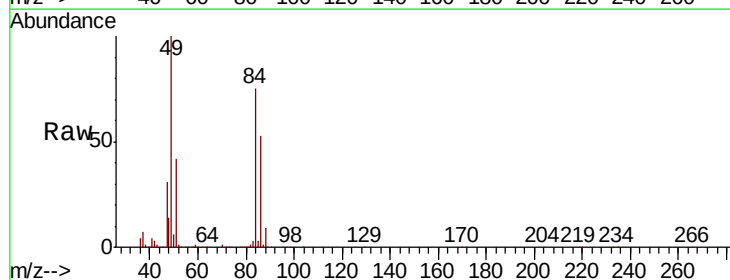


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

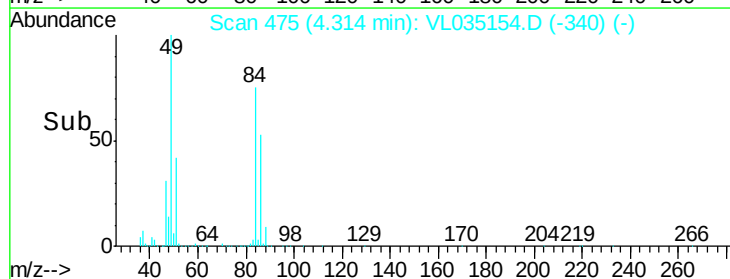
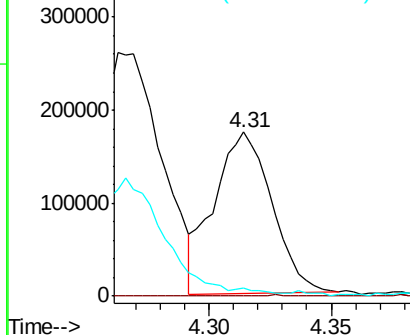


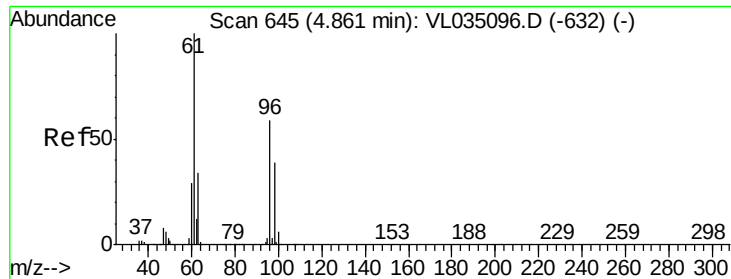
#21
Allyl Chloride
Concen: 3.929 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.07 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 41 Resp: 286775
Ion Ratio Lower Upper
41 100
76 637.1 22.6 34.0#
39 3.7 61.6 92.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.040 ppbv

RT: 4.86 min Scan# 646

Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

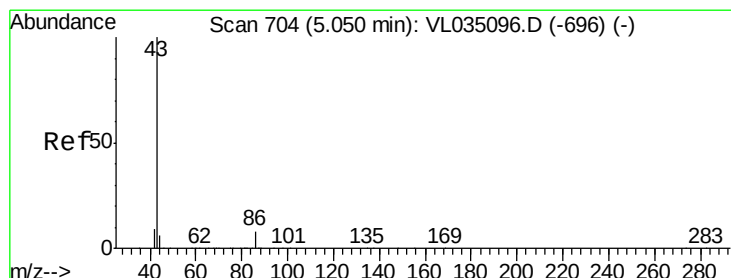
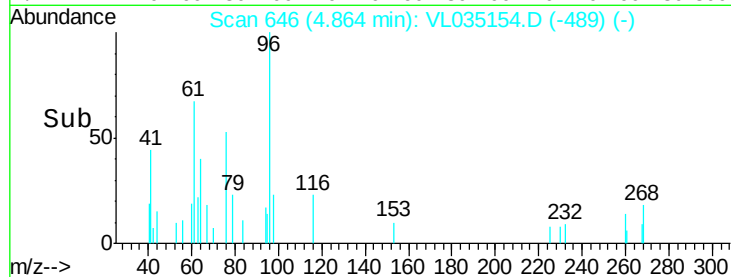
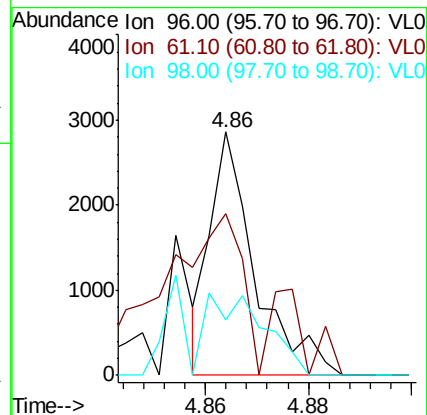
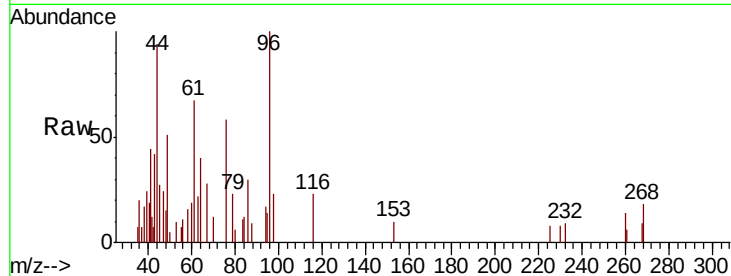
Tot Ion: 96 Resp: 1730

Ion Ratio Lower Upper

96 100

61 66.7 134.5 201.7#

98 22.7 52.6 79.0#



#23

Vinyl Acetate

Concen: 2.548 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.01 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Tgt Ion: 43 Resp: 379822

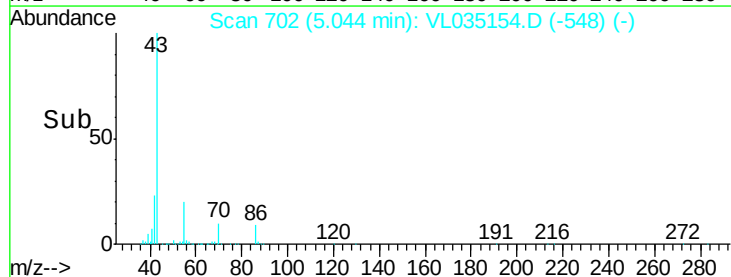
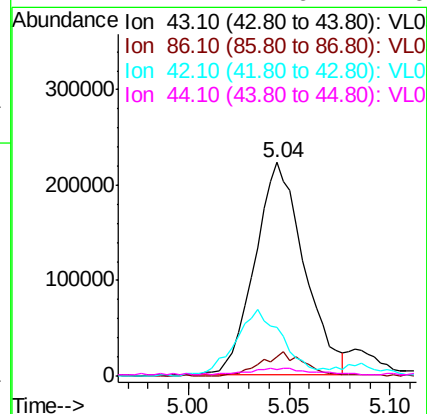
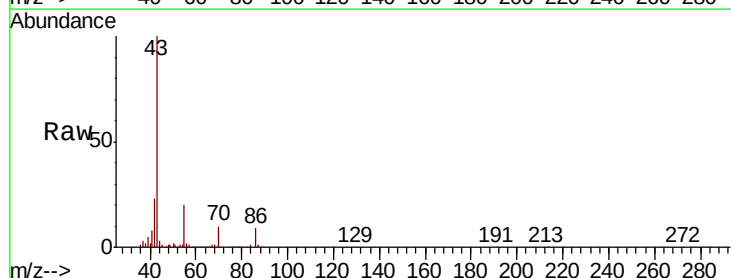
Ion Ratio Lower Upper

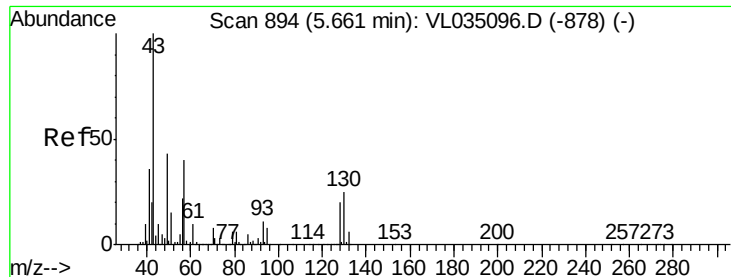
43 100

86 9.1 6.2 9.2

42 22.3 8.1 12.1#

44 2.4 4.6 7.0#

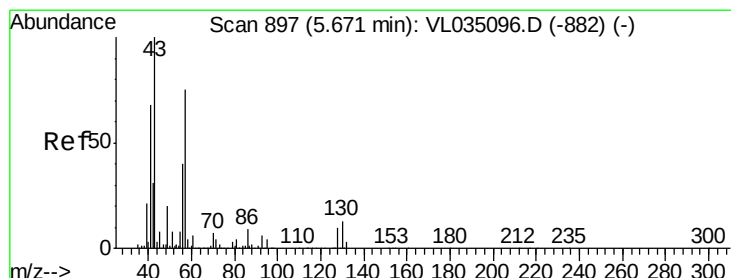
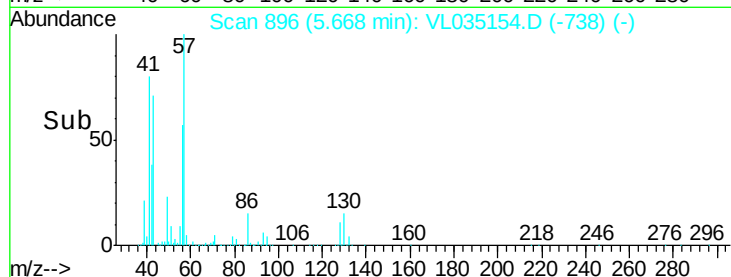
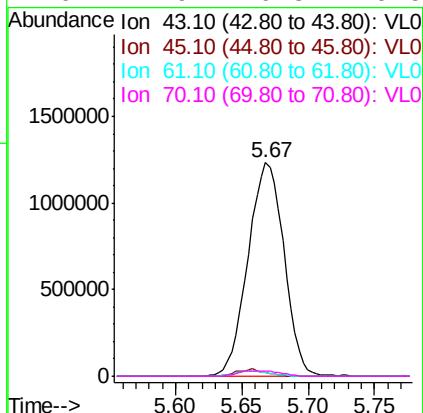
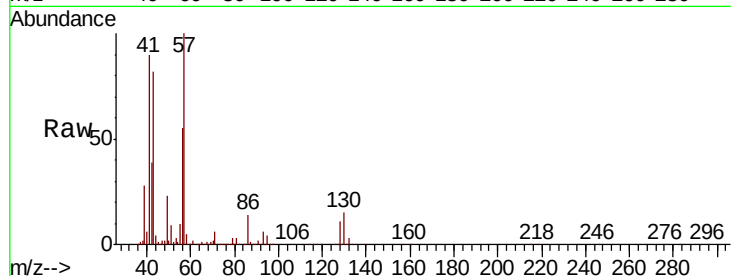




#25
Ethyl Acetate
Concen: 10.520 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

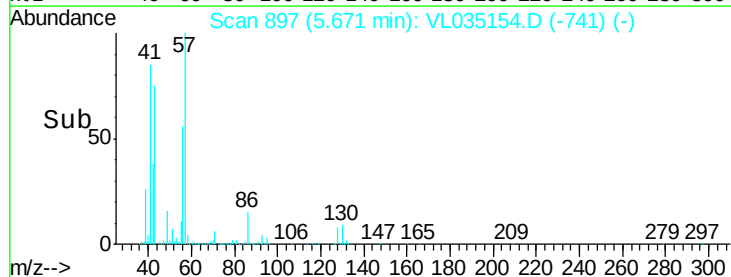
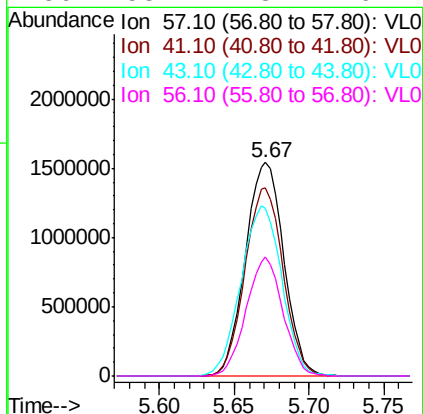
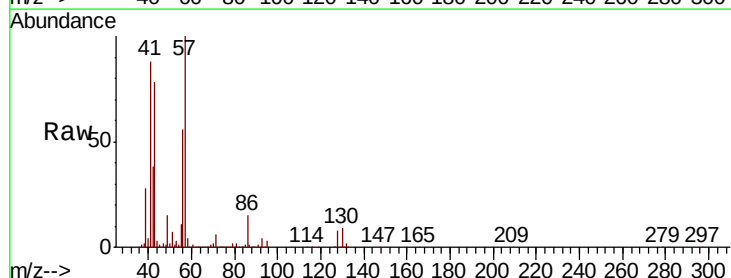
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

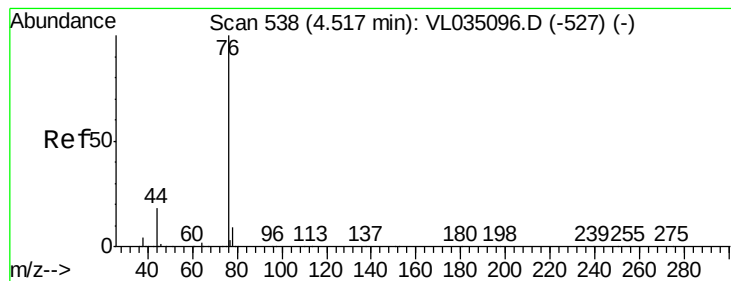
Tot Ion:	43	Resp:	2331912
Ion	Ratio	Lower	Upper
43	100		
45	2.8	8.4	12.6#
61	2.5	8.0	12.0#
70	2.9	6.3	9.5#



#26
Hexane
Concen: 27.584 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:	57	Resp:	2756780
Ion	Ratio	Lower	Upper
57	100		
41	87.9	72.9	109.3
43	85.1	181.3	271.9#
56	53.4	43.1	64.7





#27

Carbon Disulfide

Concen: 17.524 ppbv

RT: 4.52 min Scan# 539

Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

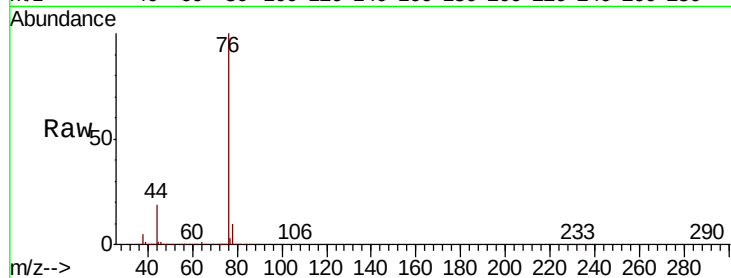
MSVOA_L

ClientSampleId :

EXHAUST-02

Tot Ion: 76 Resp: 1812467

Ion	Ratio	Lower	Upper
76	100		
44	18.6	15.8	23.8
78	9.6	7.6	11.4



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

1500000

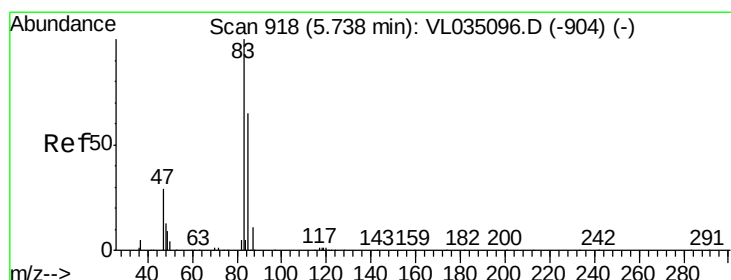
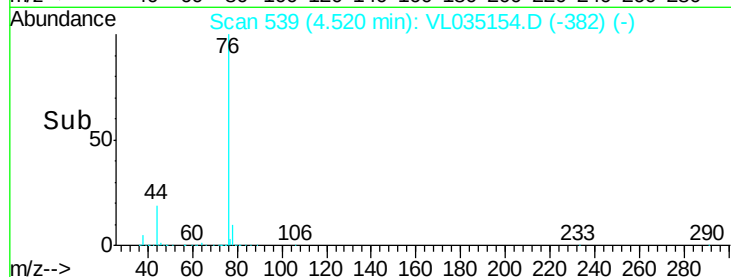
1000000

500000

0

4.45 4.50 4.55 4.60

Time-->



#29

Chloroform

Concen: 0.155 ppbv

RT: 5.74 min Scan# 920

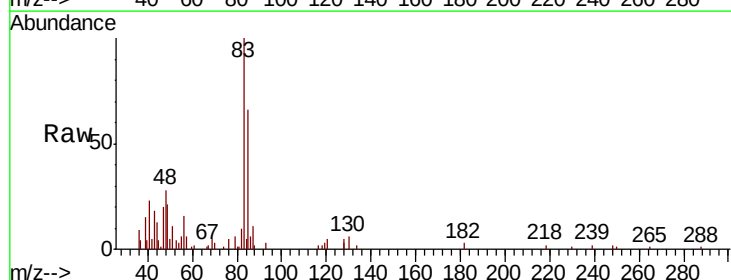
Delta R.T. 0.01 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Tgt Ion: 83 Resp: 24245

Ion	Ratio	Lower	Upper
83	100		
85	68.5	52.1	78.1



Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

15000

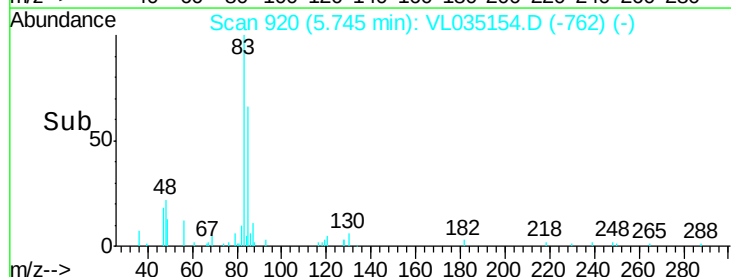
10000

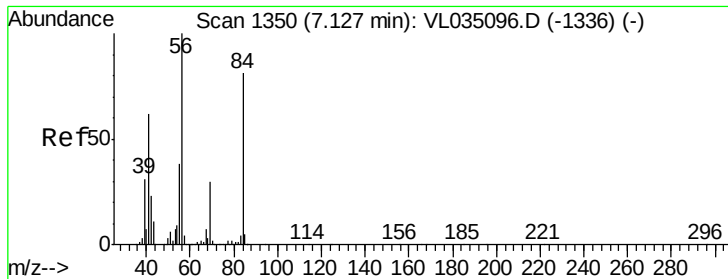
5000

0

5.70 5.75 5.80

Time-->

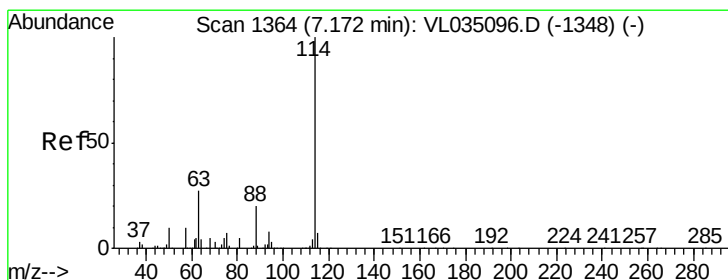
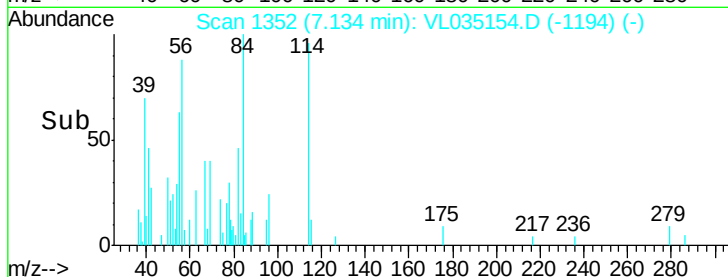
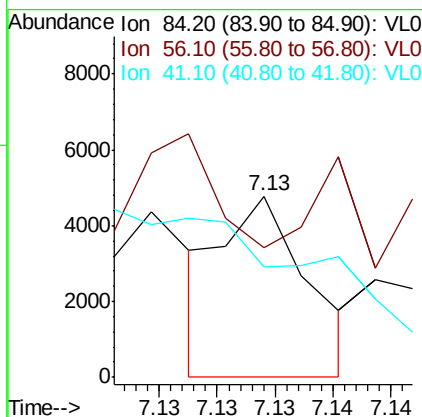
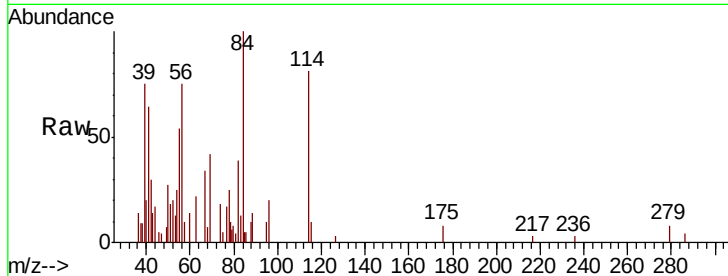




#30
Cyclohexane
Concen: 0.034 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

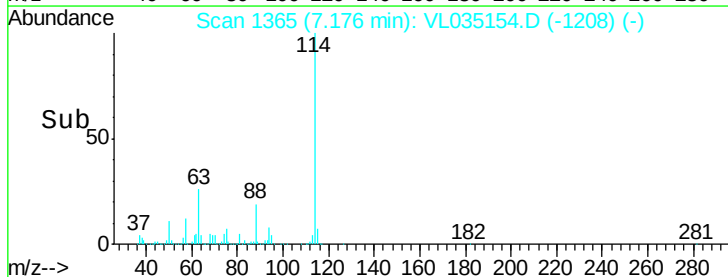
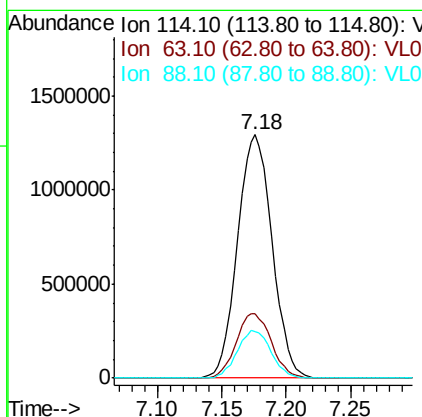
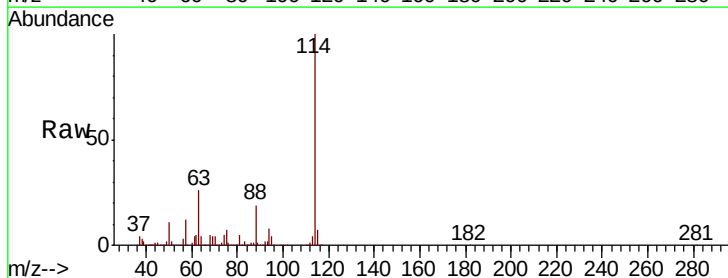
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

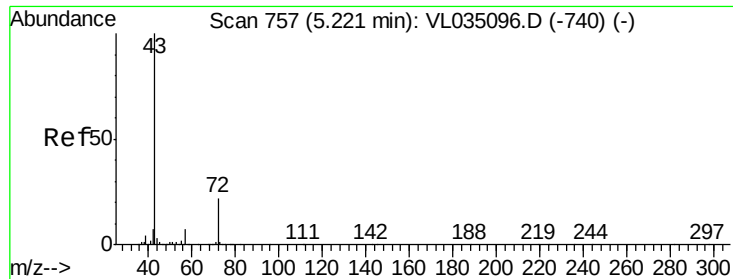
Tot Ion: 84 Resp: 2448
Ion Ratio Lower Upper
84 100
56 0.0 108.0 162.0#
41 0.0 65.6 98.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 114 Resp: 2415115
Ion Ratio Lower Upper
114 100
63 27.1 21.9 32.9
88 19.2 15.6 23.4

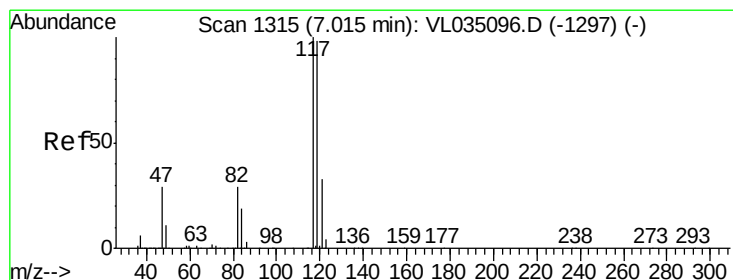
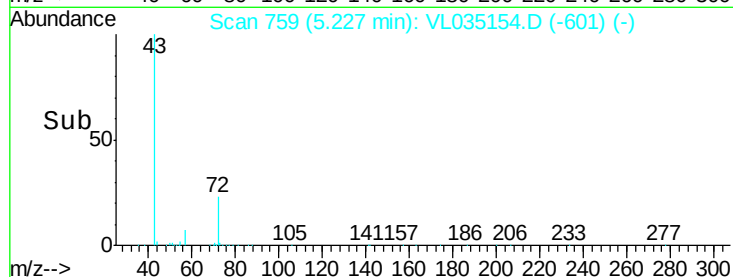
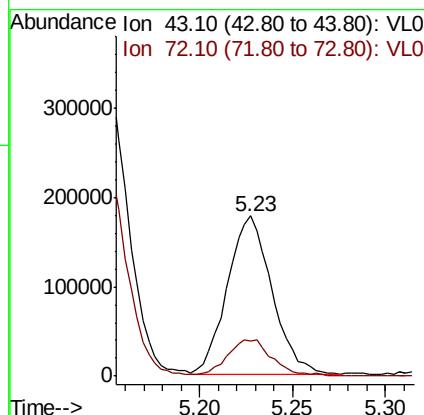
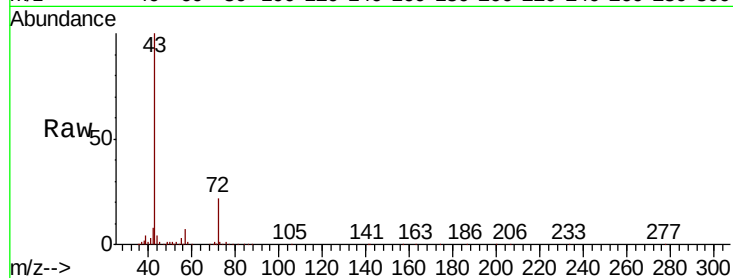




#34
 2-Butanone
 Concen: 2.134 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. 0.01 min
 Lab File: VL035154.D
 Acq: 6 Jul 2020 20:28

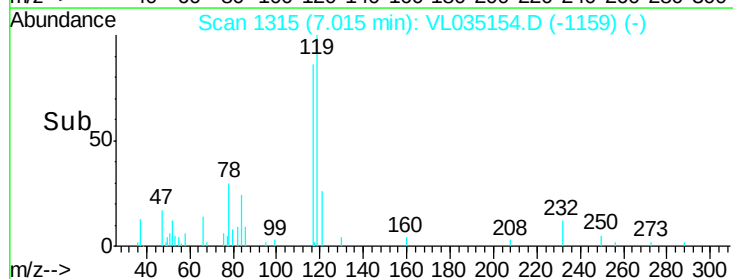
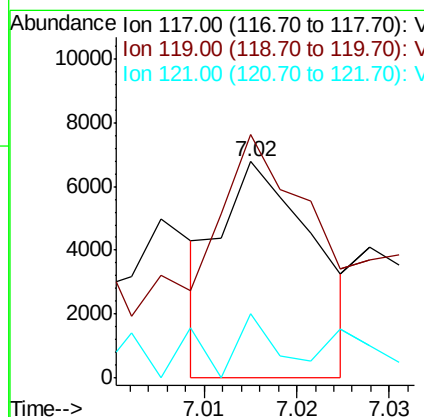
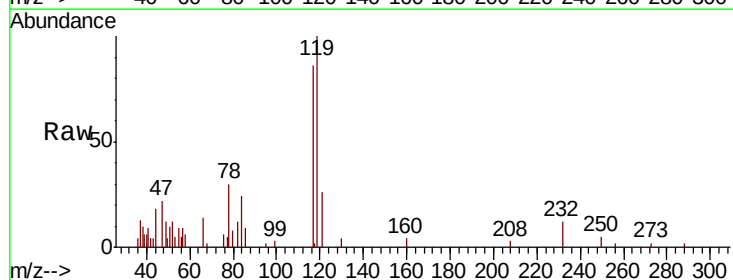
Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

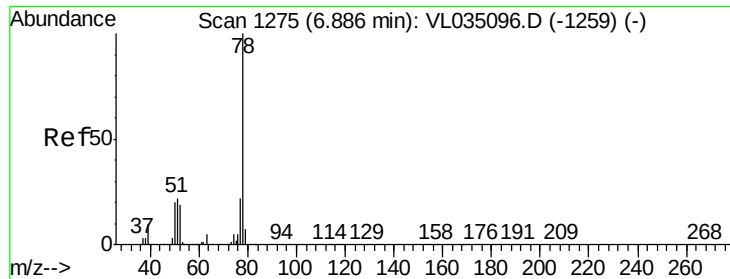
Tot Ion: 43 Resp: 295956
 Ion Ratio Lower Upper
 43 100
 72 23.7 18.3 27.5



#35
 Carbon Tetrachloride
 Concen: 0.033 ppbv
 RT: 7.02 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VL035154.D
 Acq: 6 Jul 2020 20:28

Tgt Ion: 117 Resp: 4756
 Ion Ratio Lower Upper
 117 100
 119 139.1 78.3 117.5#
 121 13.6 26.0 39.0#





#36

Benzene

Concen: 20.192 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

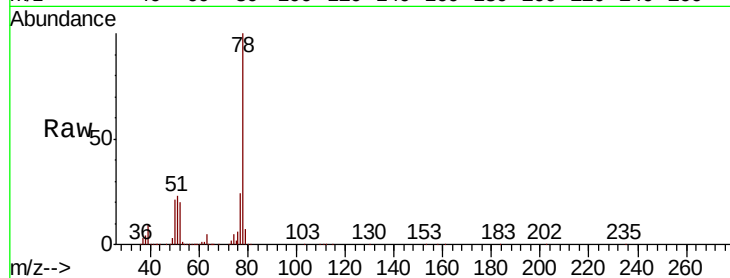
MSVOA_L

ClientSampleId :

EXHAUST-02

Tot Ion: 78 Resp: 3776157

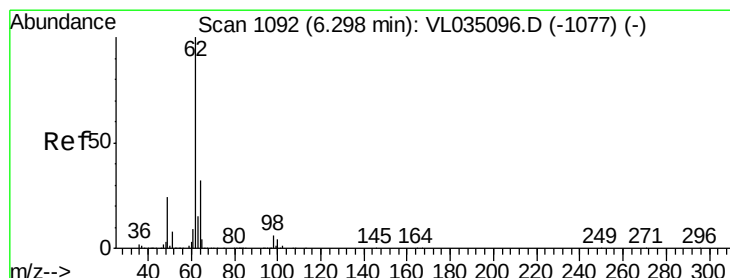
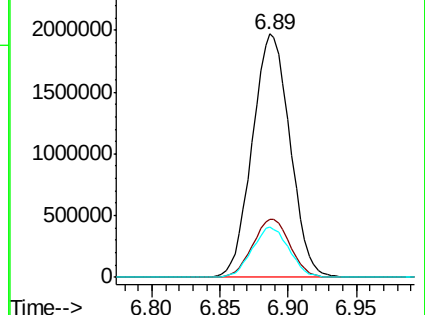
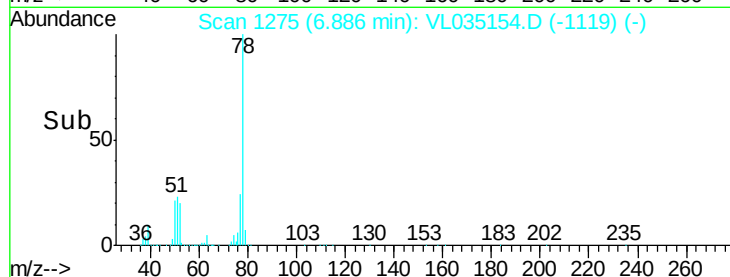
Ion	Ratio	Lower	Upper
78	100		
77	24.0	17.8	26.6
50	20.7	16.2	24.2



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.120 ppbv

RT: 6.30 min Scan# 1093

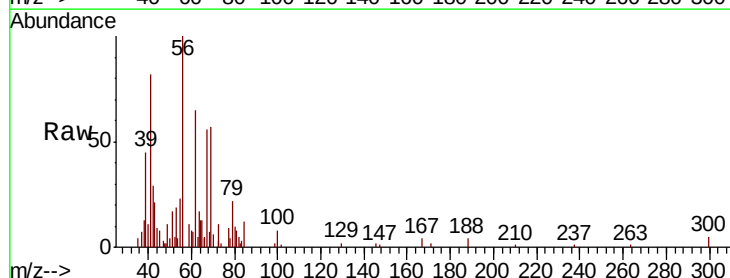
Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

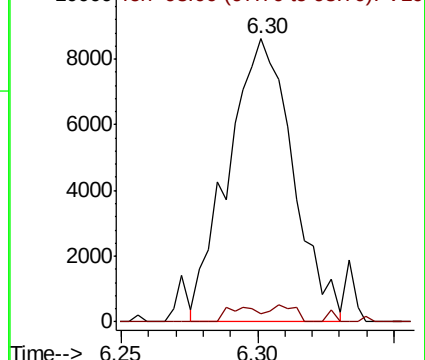
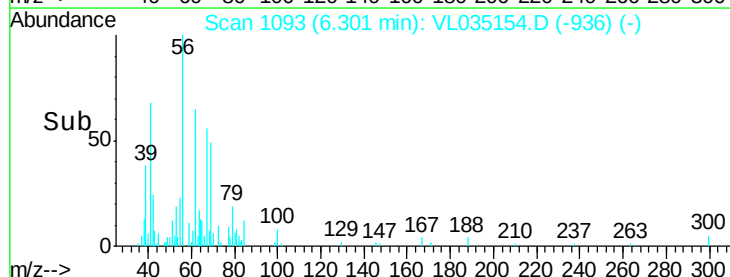
Tgt Ion: 62 Resp: 14164

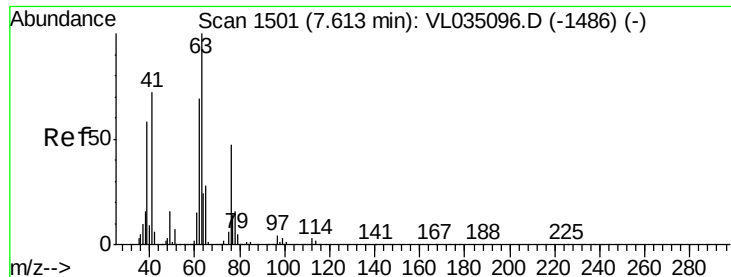
Ion	Ratio	Lower	Upper
62	100		
98	5.3	4.8	7.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

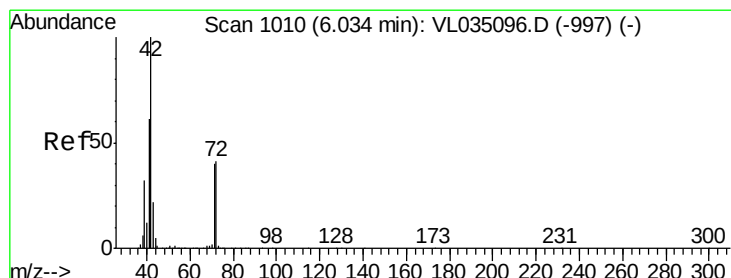
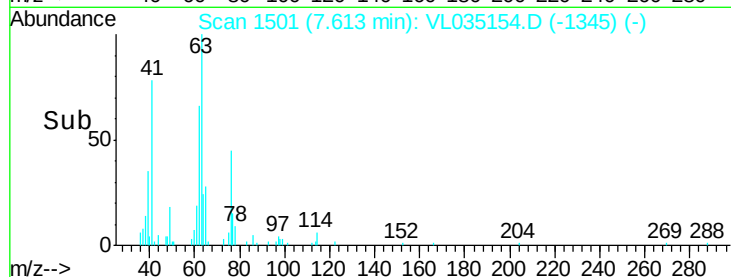
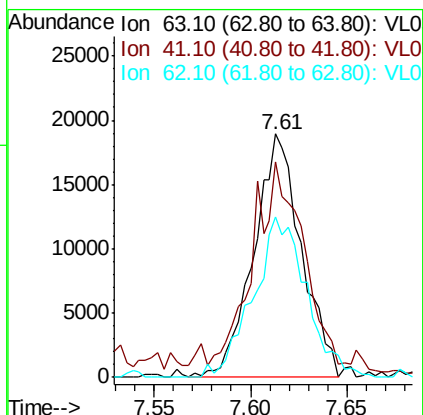
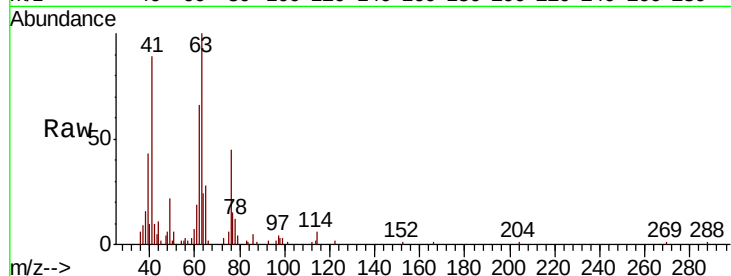




#39
 1,2-Dichloropropane
 Concen: 0.442 ppbv
 RT: 7.61 min Scan# 1501
 Delta R.T. 0.00 min
 Lab File: VL035154.D
 Acq: 6 Jul 2020 20:28

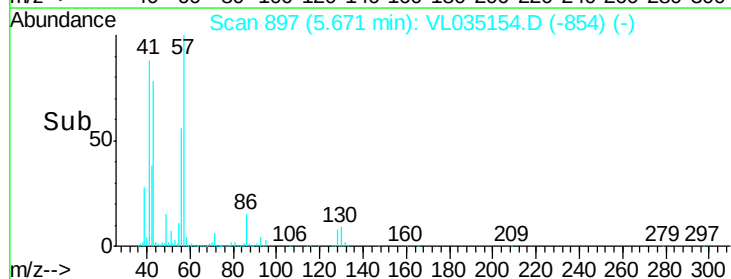
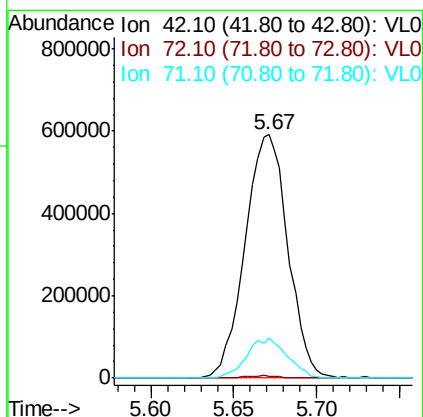
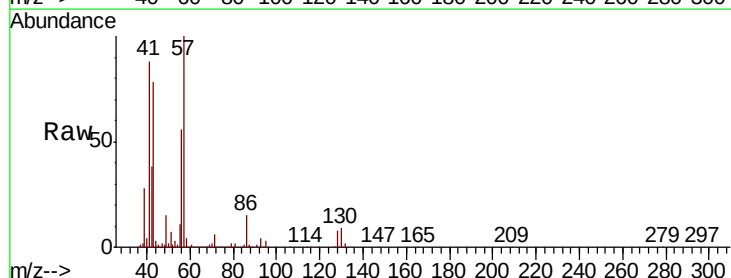
Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

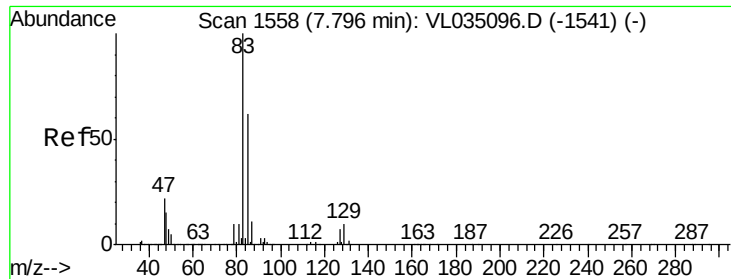
Tot Ion: 63 Resp: 32321
 Ion Ratio Lower Upper
 63 100
 41 83.4 58.0 87.0
 62 66.0 55.4 83.0



#41
 Tetrahydrofuran
 Concen: 14.955 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. -0.36 min
 Lab File: VL035154.D
 Acq: 6 Jul 2020 20:28

Tgt Ion: 42 Resp: 1059400
 Ion Ratio Lower Upper
 42 100
 72 0.9 33.4 50.2#
 71 15.7 31.8 47.6#





#42

Bromodichloromethane

Concen: 0.031 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

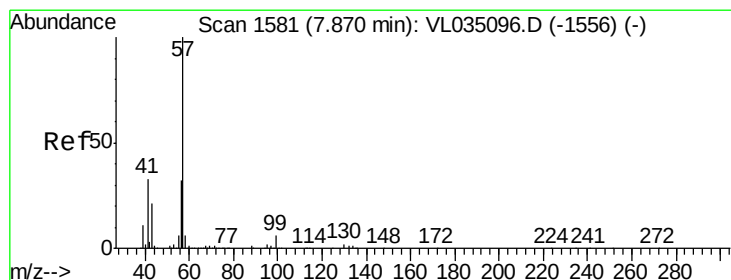
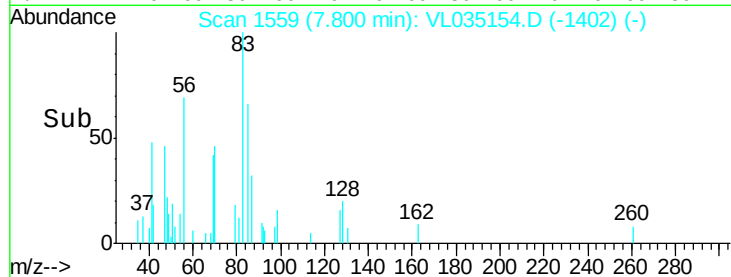
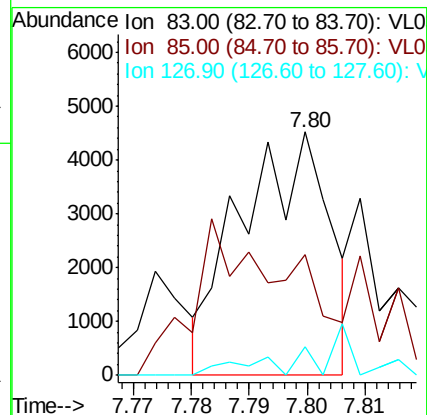
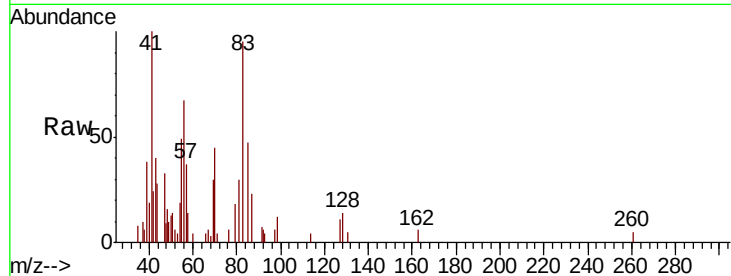
Tot Ion: 83 Resp: 4772

Ion Ratio Lower Upper

83 100

85 41.4 49.4 74.0#

127 15.2 5.9 8.9#



#44

2,2,4-Trimethylpentane

Concen: 0.214 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

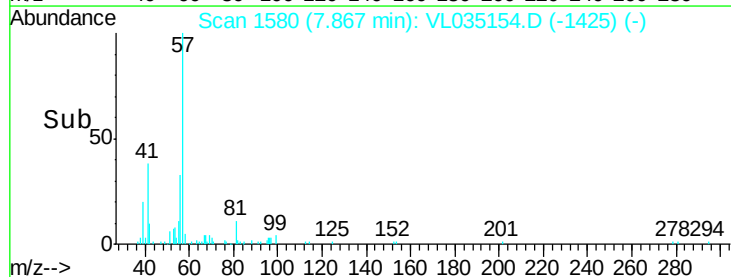
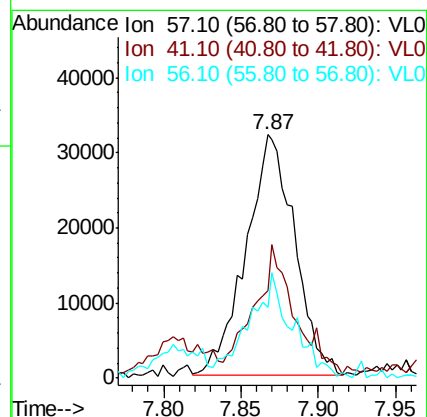
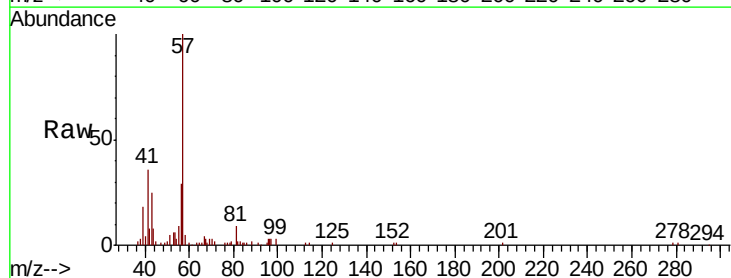
Tgt Ion: 57 Resp: 69771

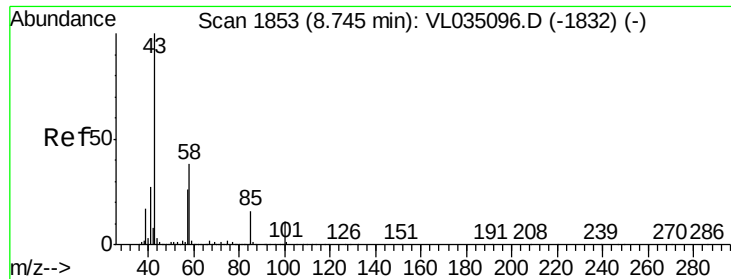
Ion Ratio Lower Upper

57 100

41 42.8 26.2 39.2#

56 41.7 25.4 38.2#





#50

4-Methyl-2-Pentanone

Concen: 0.044 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

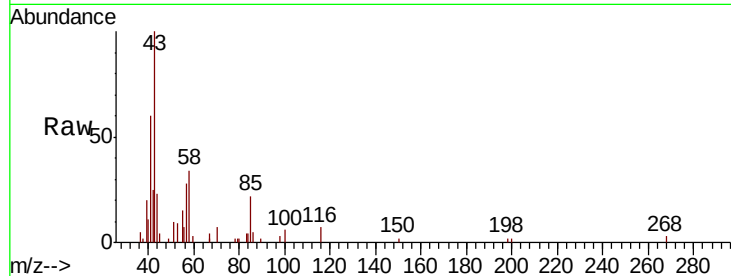
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Tot Ion: 43 Resp: 8675

Ion Ratio Lower Upper

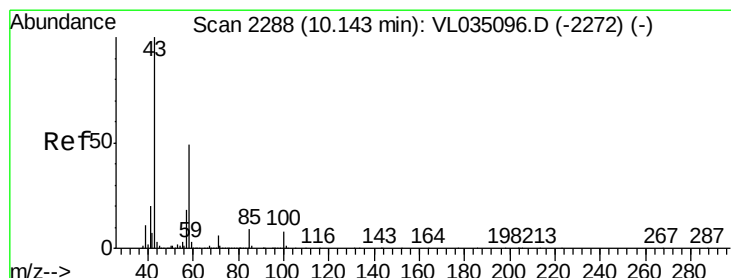
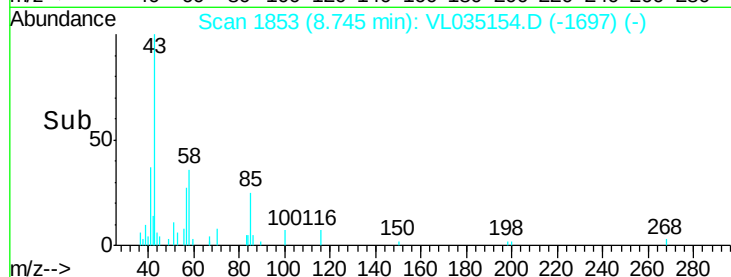
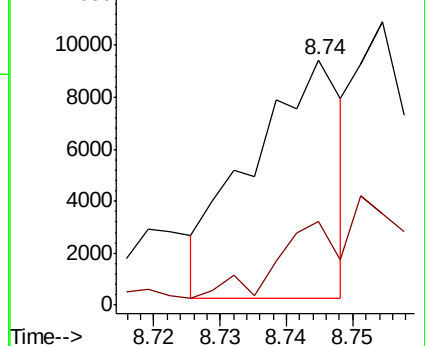
43 100

58 0.0 29.4 44.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#51

2-Hexanone

Concen: 5.490 ppbv

RT: 10.43 min Scan# 2377

Delta R.T. 0.29 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

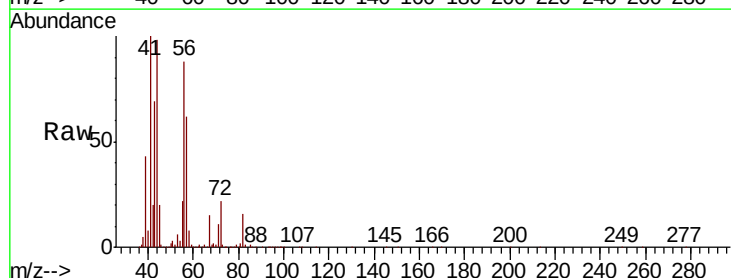
Tgt Ion: 43 Resp: 847161

Ion Ratio Lower Upper

43 100

58 13.7 39.2 58.8#

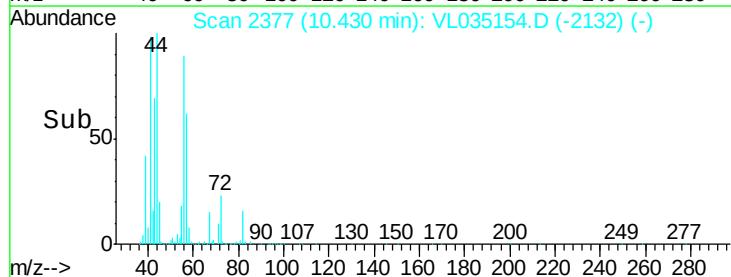
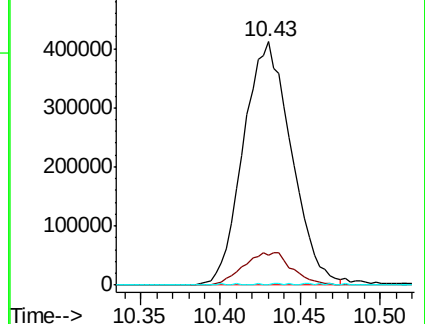
98 0.6 0.3 0.5#

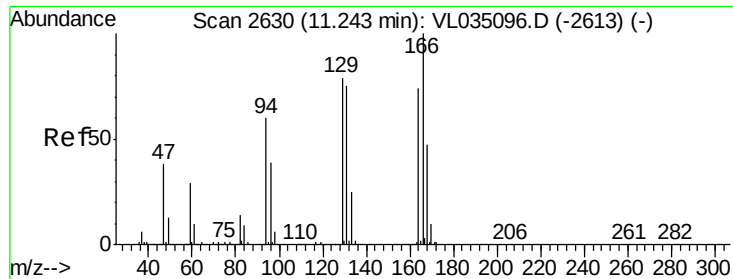


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 0.031 ppbv

RT: 11.25 min Scan# 2633

Delta R.T. 0.01 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

Tot Ion:164 Resp: 2047

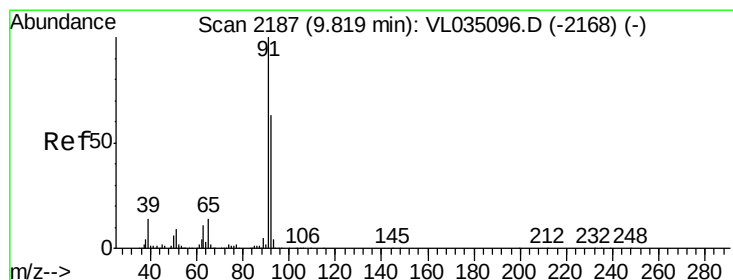
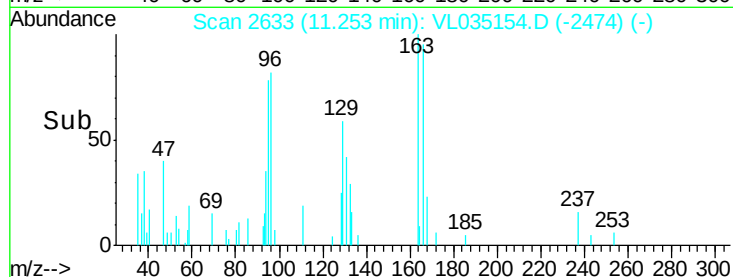
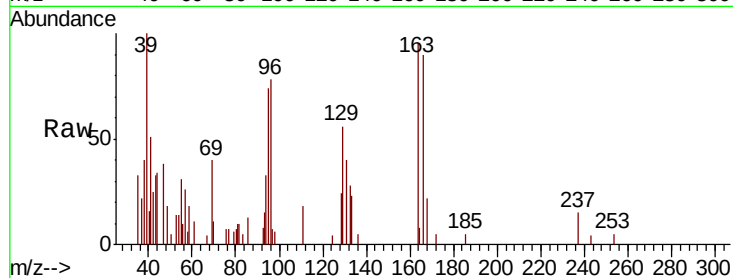
Ion Ratio Lower Upper

164 100

166 102.3 107.5 161.3#

129 51.1 84.9 127.3#

131 22.4 81.1 121.7#



#53

Toluene

Concen: 2.899 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VL035154.D

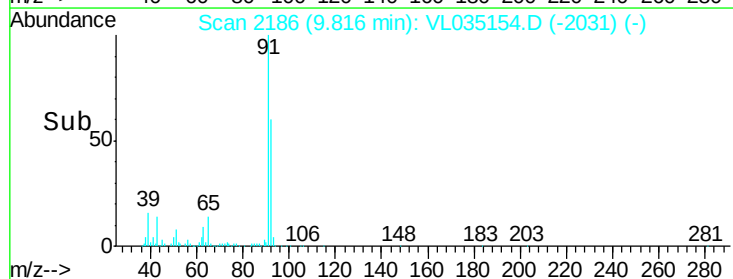
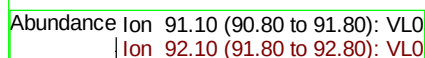
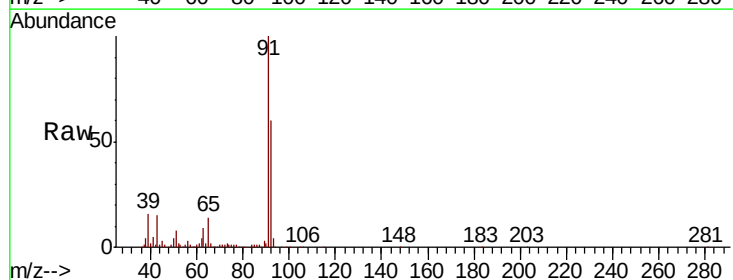
Acq: 6 Jul 2020 20:28

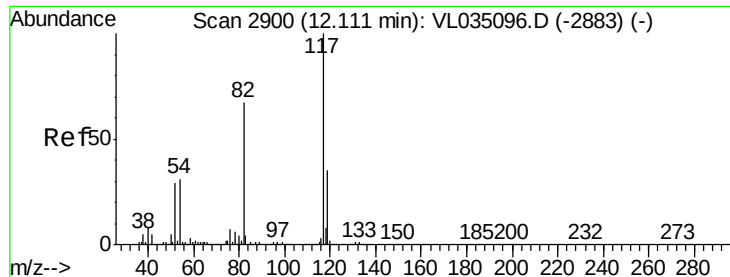
Tgt Ion: 91 Resp: 578290

Ion Ratio Lower Upper

91 100

92 59.5 49.0 73.6

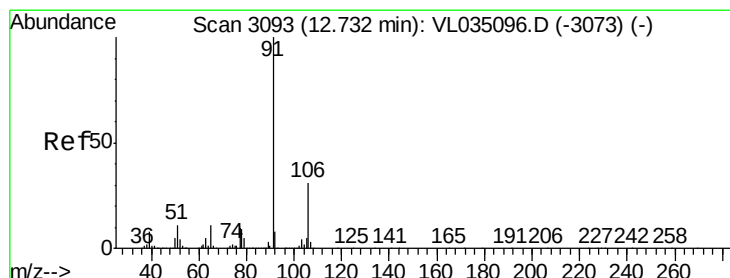
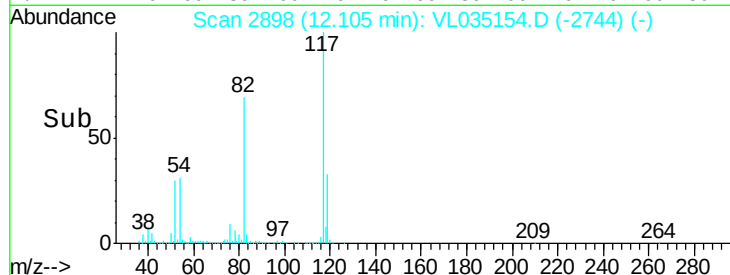
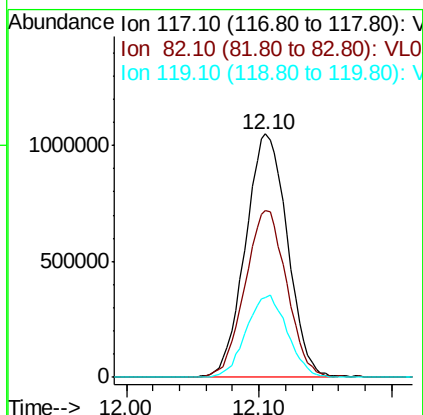
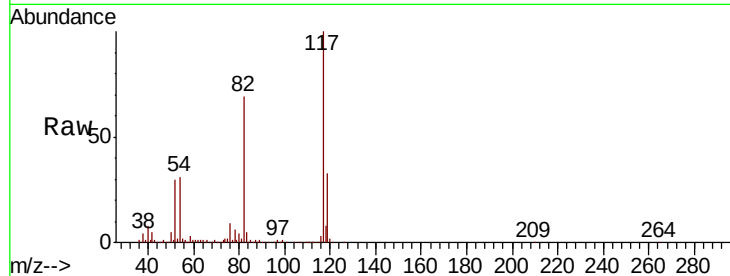




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

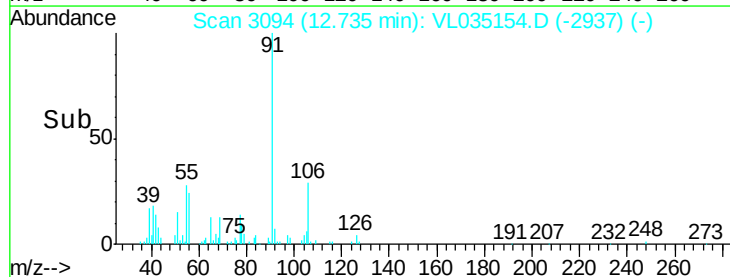
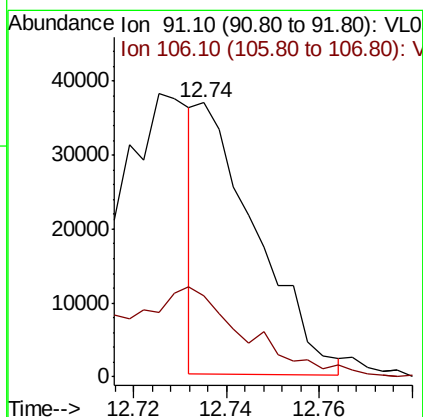
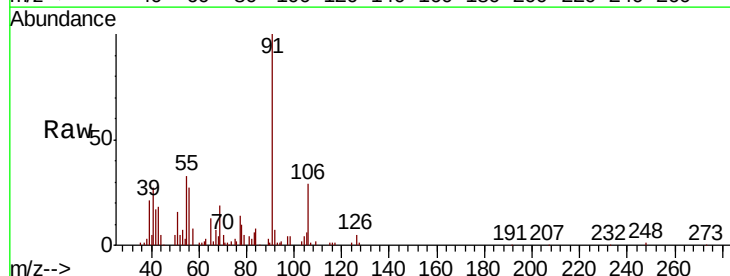
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

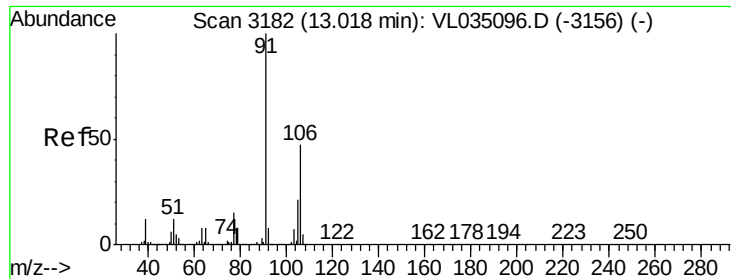
Tot Ion:117 Resp: 2310395
Ion Ratio Lower Upper
117 100
82 68.5 50.4 75.6
119 33.3 25.4 38.0



#58
Ethyl Benzene
Concen: 0.124 ppbv
RT: 12.74 min Scan# 3094
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 91 Resp: 32209
Ion Ratio Lower Upper
91 100
106 27.4 25.0 37.6

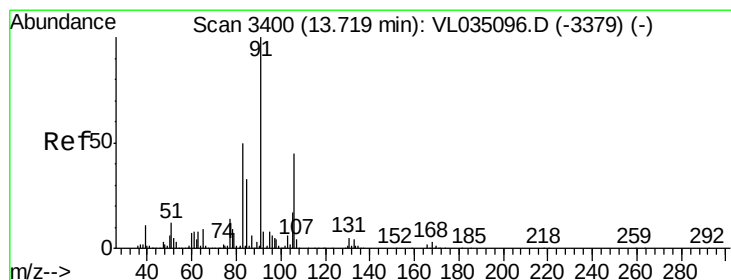
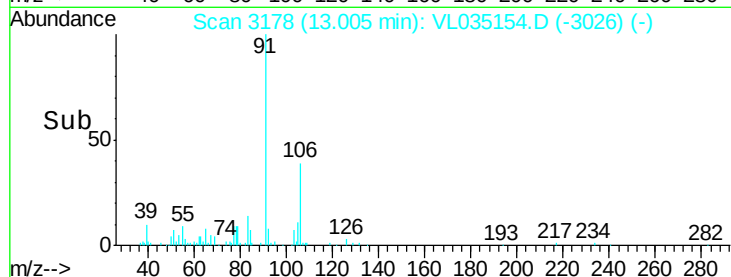
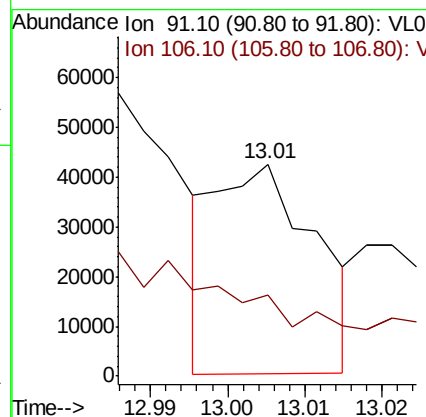
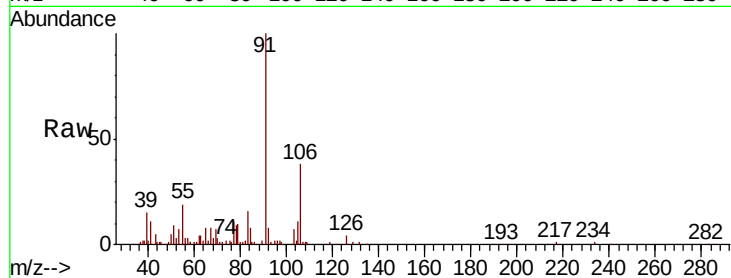




#59
m/p-Xylene
Concen: 0.164 ppbv
RT: 13.01 min Scan# 3178
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

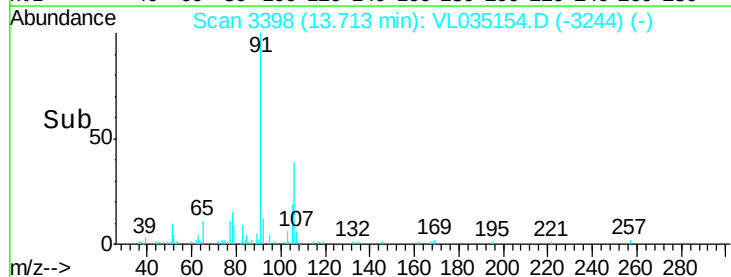
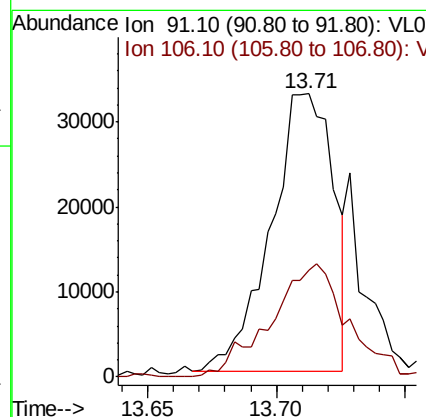
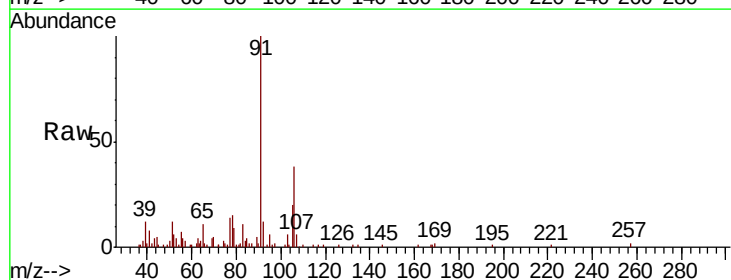
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

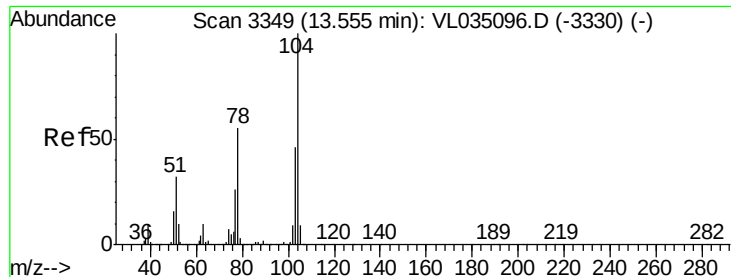
Tot Ion: 91 Resp: 37721
Ion Ratio Lower Upper
91 100
106 0.0 36.5 54.7#



#60
o-Xylene
Concen: 0.242 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 91 Resp: 55498
Ion Ratio Lower Upper
91 100
106 49.7 22.1 66.5





#61

Stvrene

Concen: 0.077 ppbv

RT: 13.55 min Scan# 3346

Delta R.T. -0.01 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

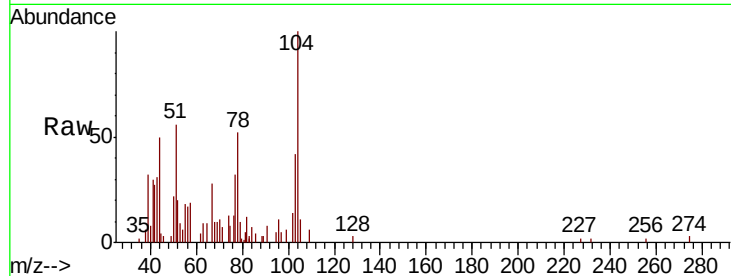
Tot Ion:104 Resp: 11158

Ion Ratio Lower Upper

104 100

78 148.8 43.4 65.0#

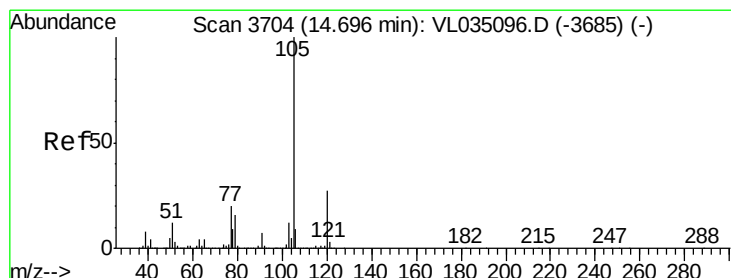
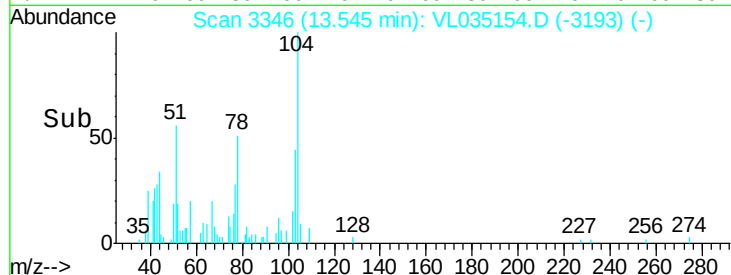
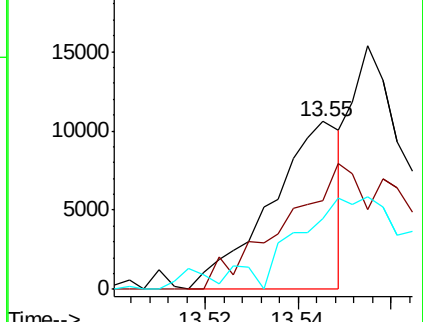
103 0.0 38.3 57.5#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.926 ppbv

RT: 14.69 min Scan# 3703

Delta R.T. -0.00 min

Lab File: VL035154.D

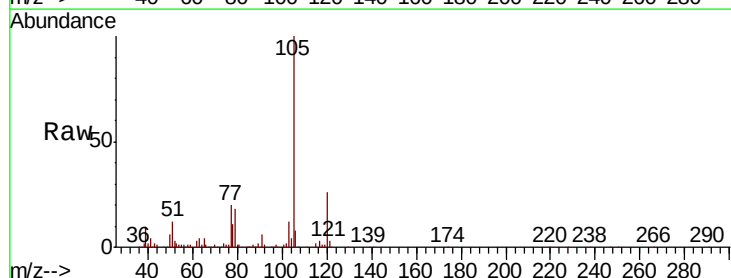
Acq: 6 Jul 2020 20:28

Tgt Ion:105 Resp: 316349

Ion Ratio Lower Upper

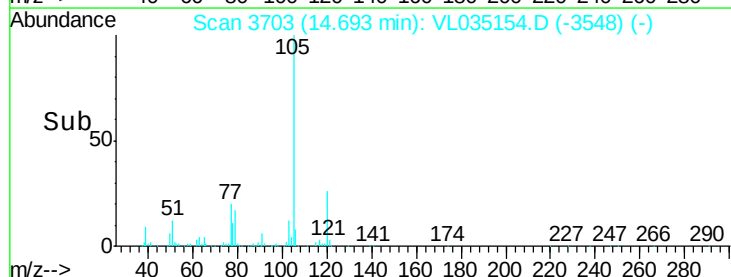
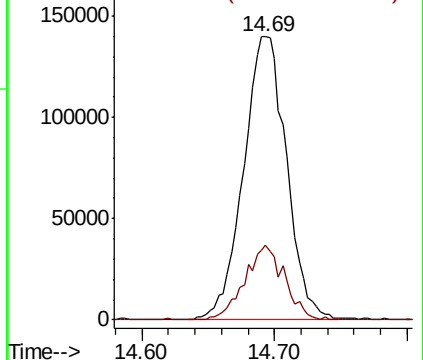
105 100

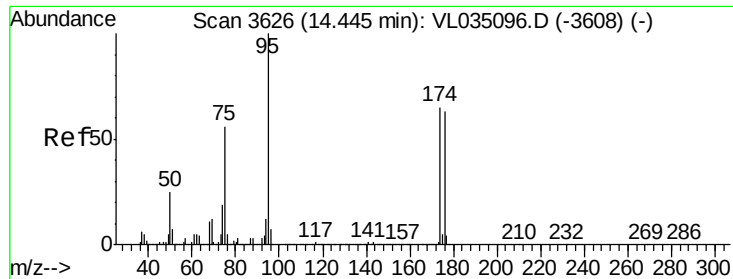
120 24.4 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

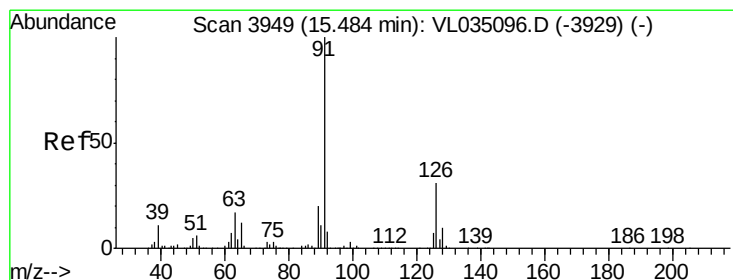
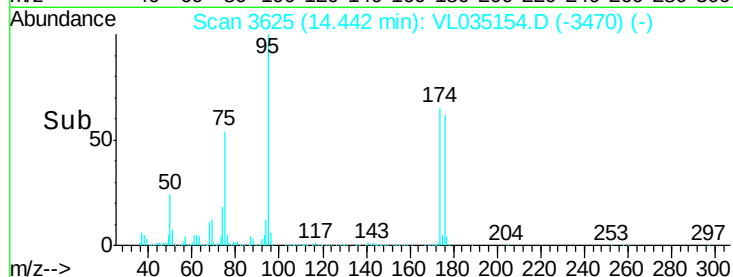
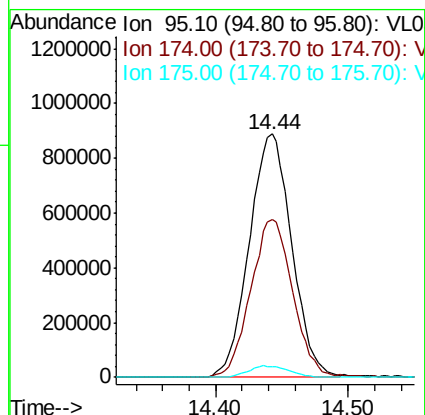
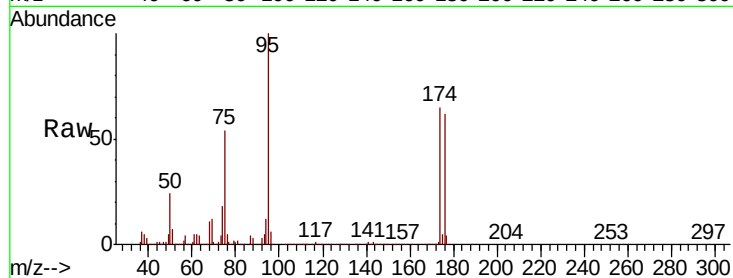




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.324 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL035154.D
 Acq: 6 Jul 2020 20:28

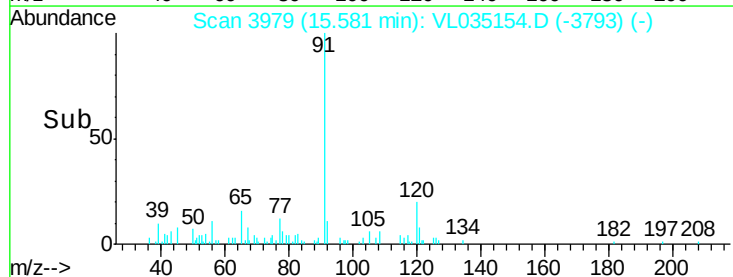
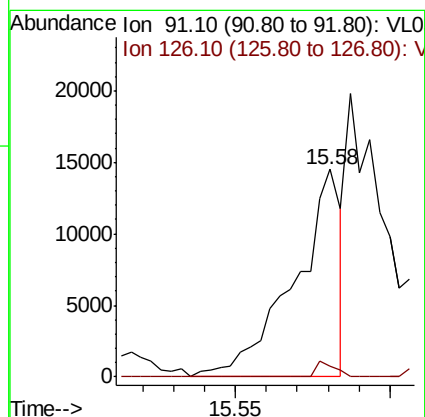
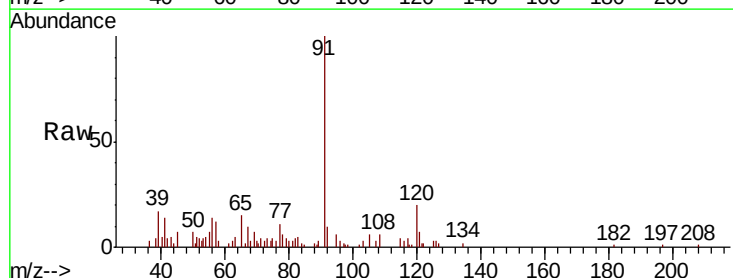
Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

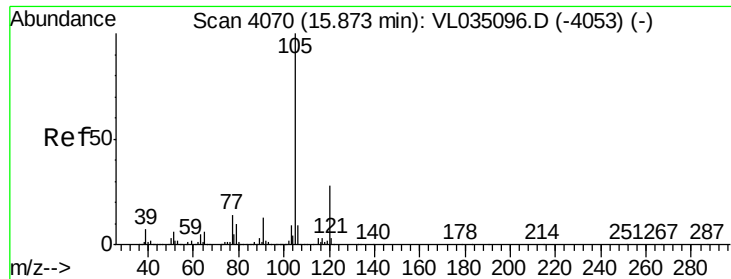
Tot Ion: 95 Resp: 1981437
 Ion Ratio Lower Upper
 95 100
 174 64.8 52.2 78.2
 175 4.6 4.0 6.0



#71
 2-Chlorotoluene
 Concen: 0.059 ppbv
 RT: 15.58 min Scan# 3979
 Delta R.T. 0.10 min
 Lab File: VL035154.D
 Acq: 6 Jul 2020 20:28

Tgt Ion: 91 Resp: 15176
 Ion Ratio Lower Upper
 91 100
 126 2.9 12.0 48.0#





#72

4-Ethyltoluene

Concen: 0.048 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. -0.01 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

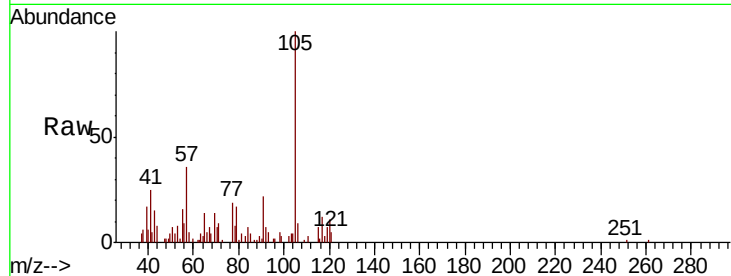
Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

Tot Ion:	105	Resp:	12216
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	0.0	10.6	16.0#
77	0.0	11.3	16.9#

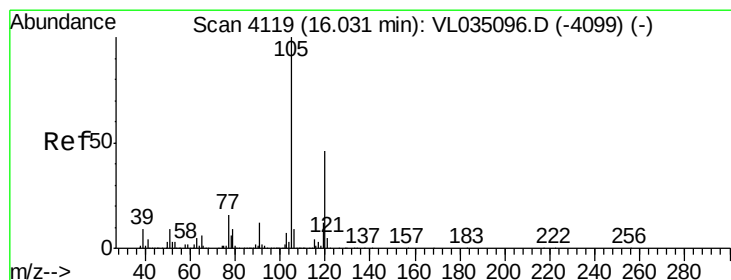
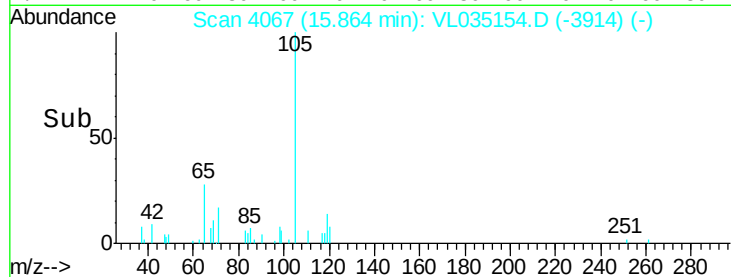
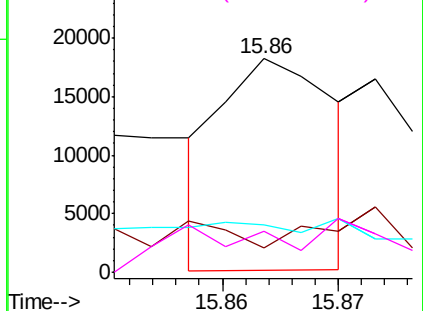


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.031 ppbv

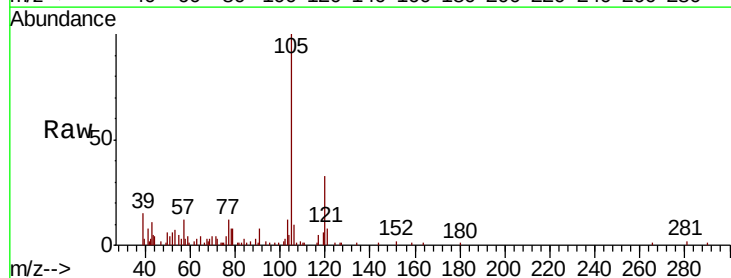
RT: 16.02 min Scan# 4117

Delta R.T. -0.01 min

Lab File: VL035154.D

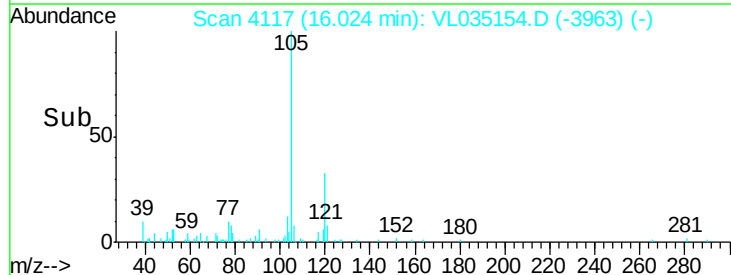
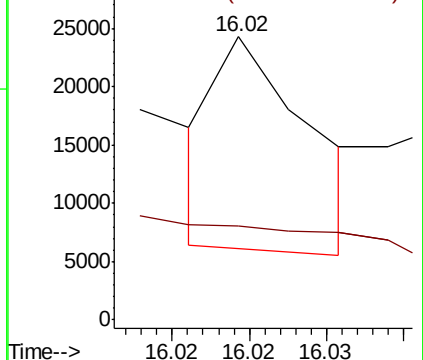
Acq: 6 Jul 2020 20:28

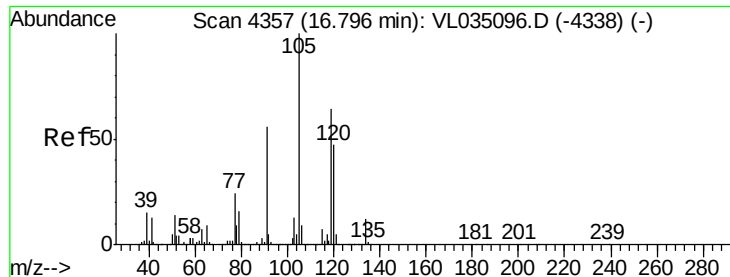
Tgt Ion:	105	Resp:	7580
Ion	Ratio	Lower	Upper
105	100		
120	25.8	37.0	55.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

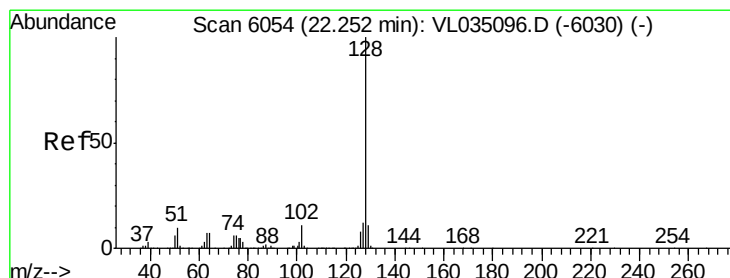
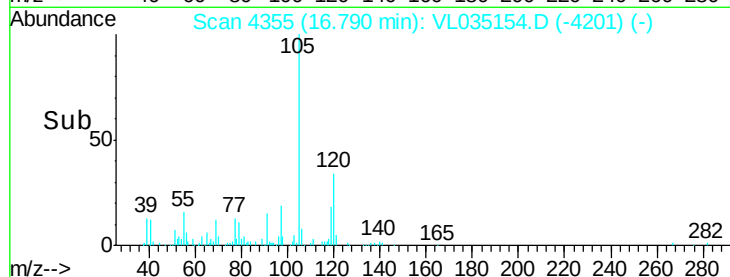
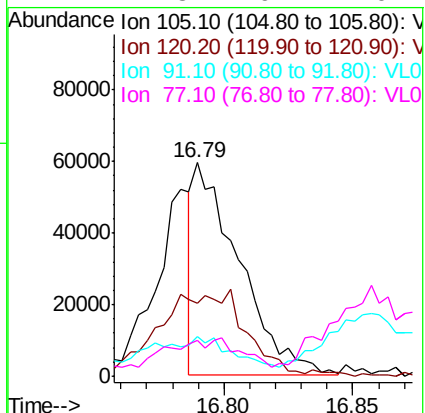
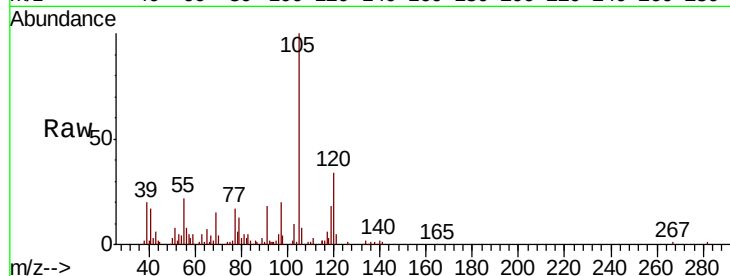




#74
 1,2,4-Trimethylbenzene
 Concen: 0.269 ppbv
 RT: 16.79 min Scan# 4357
 Delta R.T. -0.01 min
 Lab File: VL035154.D
 Acq: 6 Jul 2020 20:28

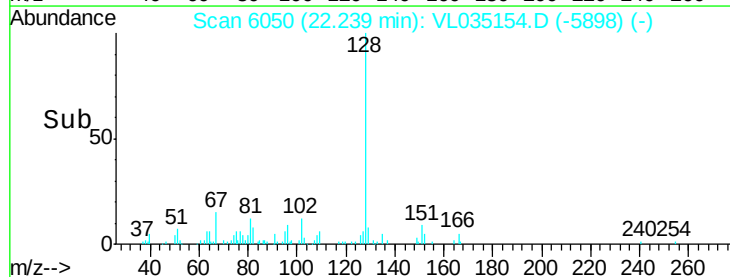
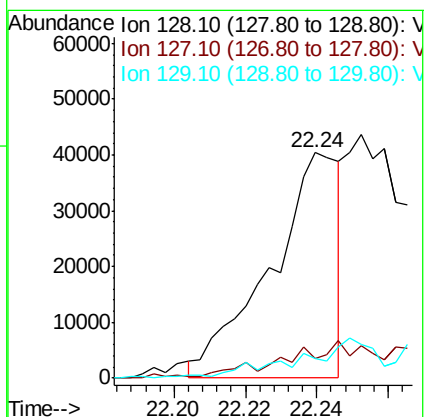
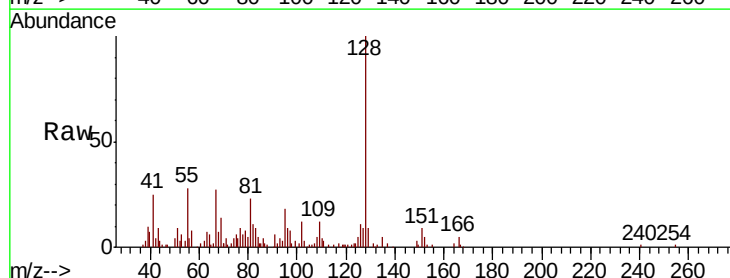
Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

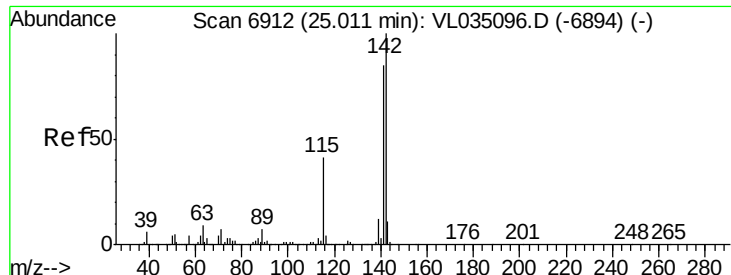
Tot Ion:105 Resp: 72344
 Ion Ratio Lower Upper
 105 100
 120 33.1 37.9 56.9#
 91 3.8 46.0 69.0#
 77 1.8 19.4 29.2#



#79
 Naphthalene
 Concen: 0.229 ppbv
 RT: 22.24 min Scan# 6050
 Delta R.T. -0.01 min
 Lab File: VL035154.D
 Acq: 6 Jul 2020 20:28

Tgt Ion:128 Resp: 54017
 Ion Ratio Lower Upper
 128 100
 127 8.9 9.9 14.9#
 129 8.0 9.0 13.4#





#80

Naphthalene, 2-methyl-

Concen: 0.138 ppbv

RT: 25.02 min Scan# 6915

Delta R.T. 0.01 min

Lab File: VL035154.D

Acq: 6 Jul 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

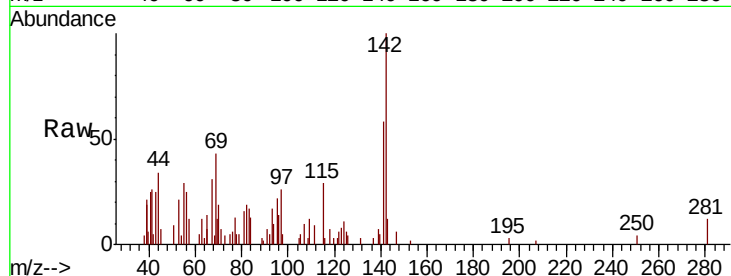
Tot Ion:142 Resp: 12441

Ion Ratio Lower Upper

142 100

141 88.6 67.5 101.3

115 45.5 33.8 50.8



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

